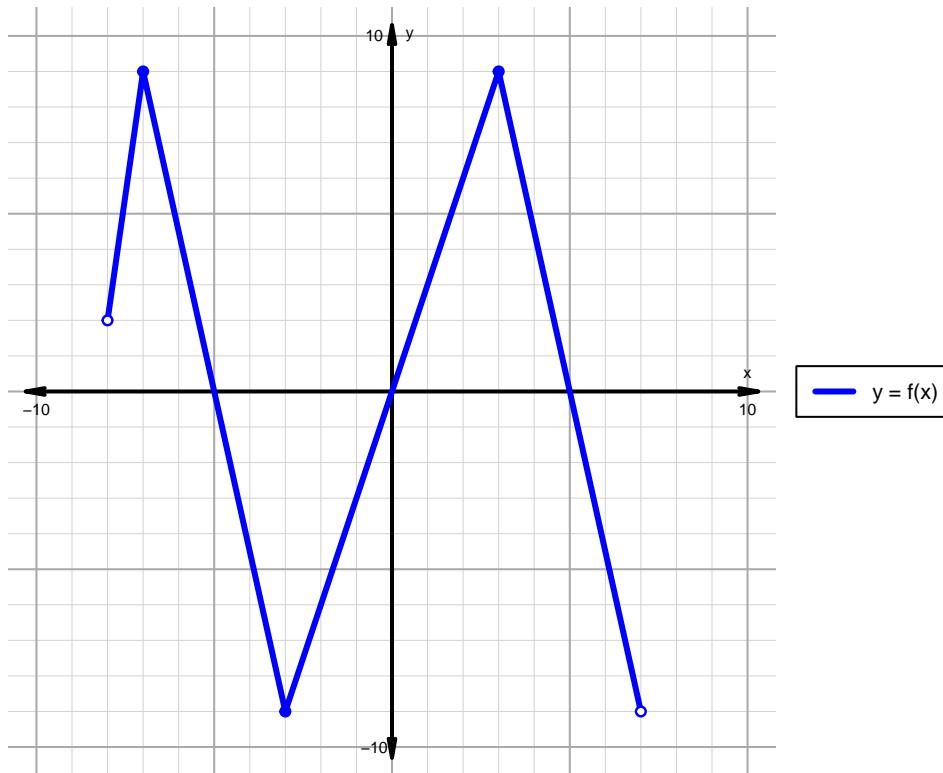


Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 150)

1. The function f is graphed below.



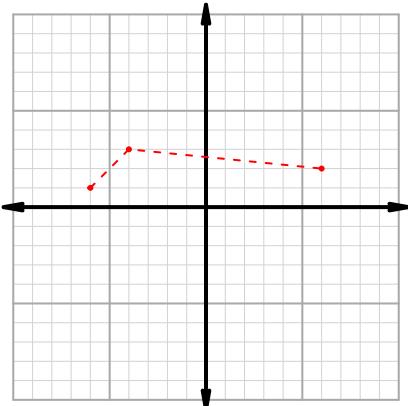
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

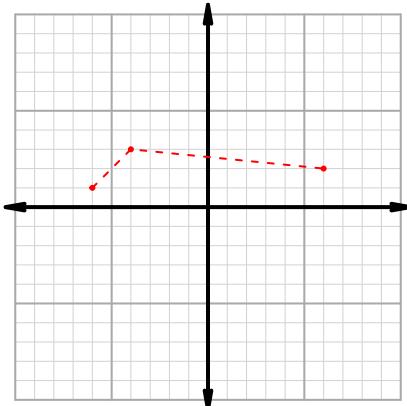
Intervals, Transformations, and Slope EXAM (version 150)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

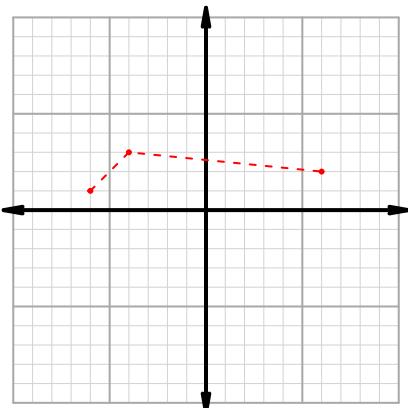
$$y = f(x+2)$$



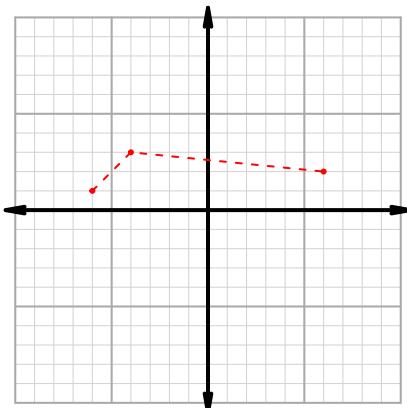
$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 60$ and $x_2 = 81$. Express your answer as a reduced fraction.

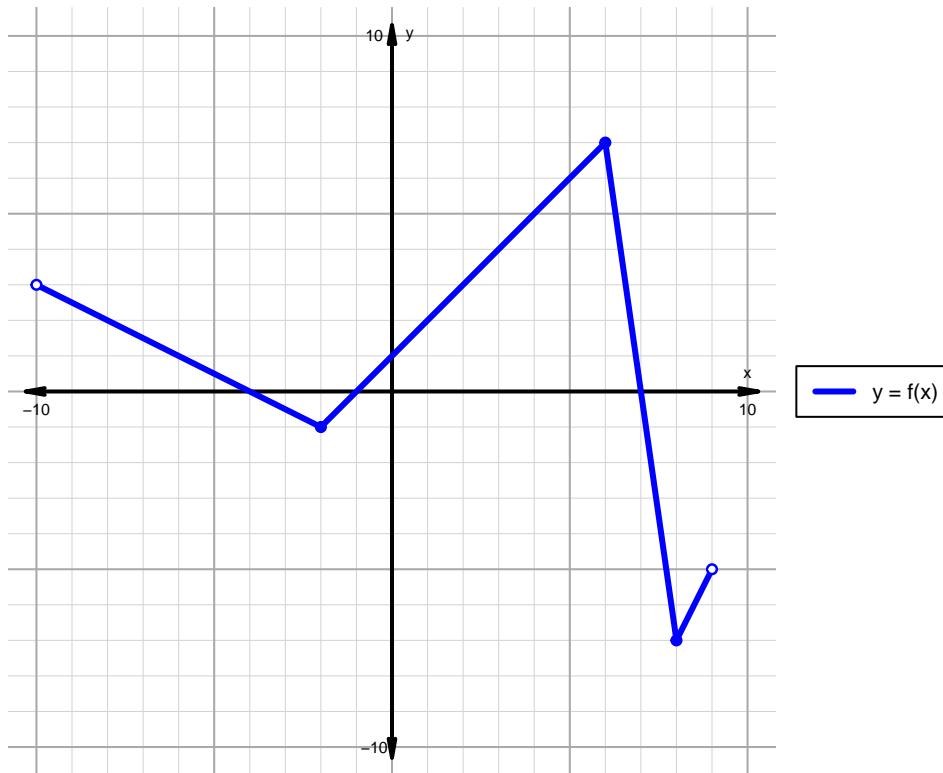
x	$g(x)$
15	60
43	81
60	43
81	15

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 151)

1. The function f is graphed below.



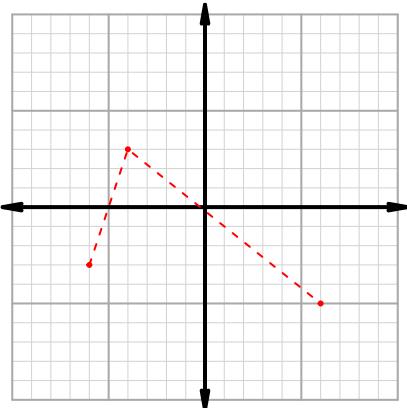
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

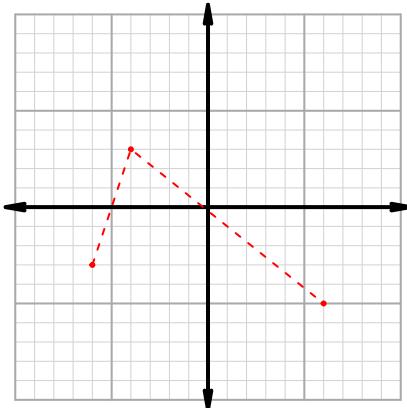
Intervals, Transformations, and Slope EXAM (version 151)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

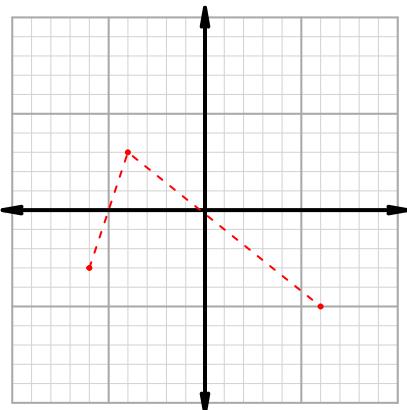
$$y = f(x - 2)$$



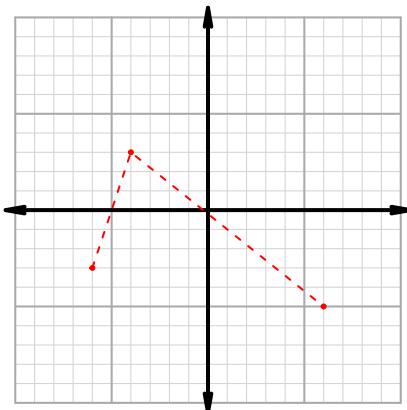
$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 34$ and $x_2 = 88$. Express your answer as a reduced fraction.

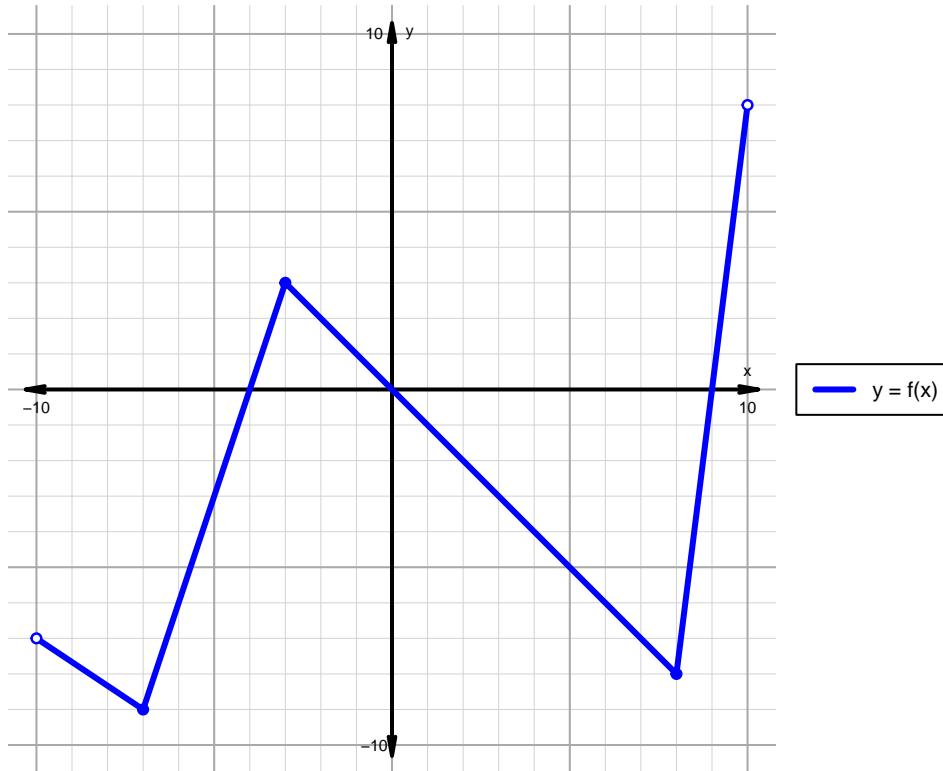
x	$g(x)$
4	34
34	49
49	88
88	4

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 152)

1. The function f is graphed below.



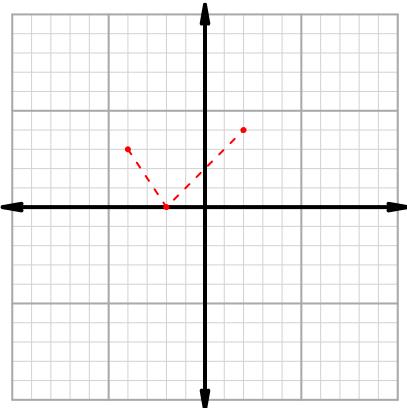
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

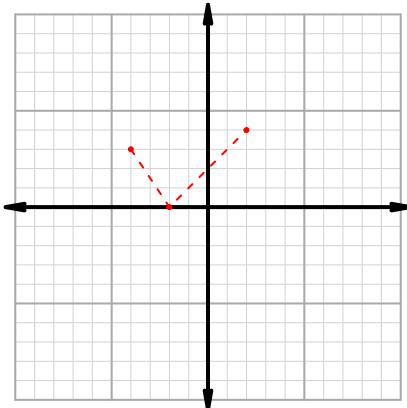
Intervals, Transformations, and Slope EXAM (version 152)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

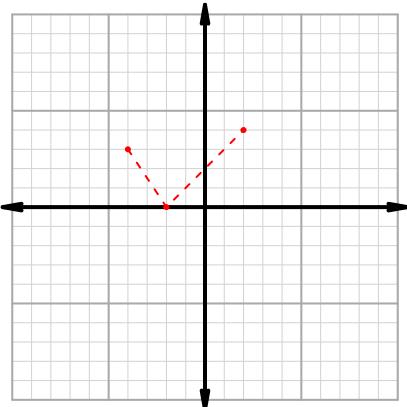
$$y = f(x) - 2$$



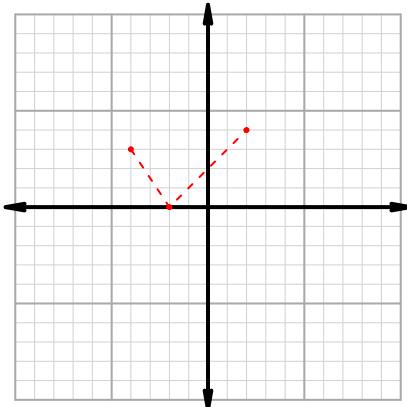
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 33$ and $x_2 = 87$. Express your answer as a reduced fraction.

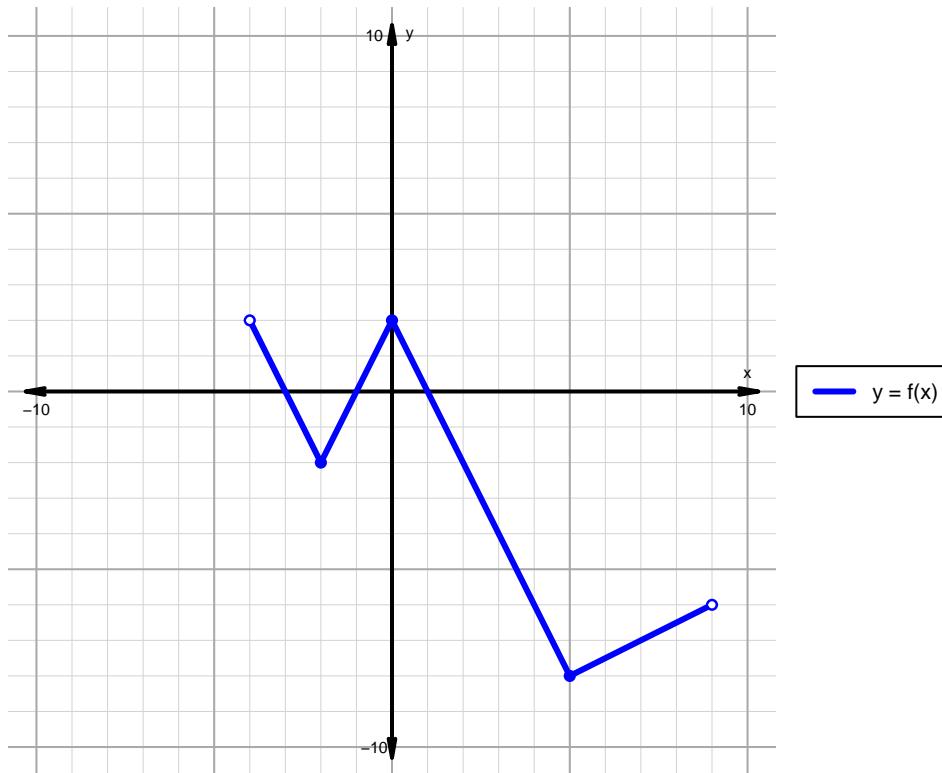
x	$g(x)$
33	85
85	87
87	94
94	33

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 153)

1. The function f is graphed below.



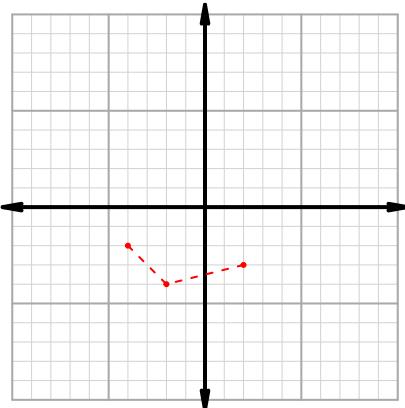
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

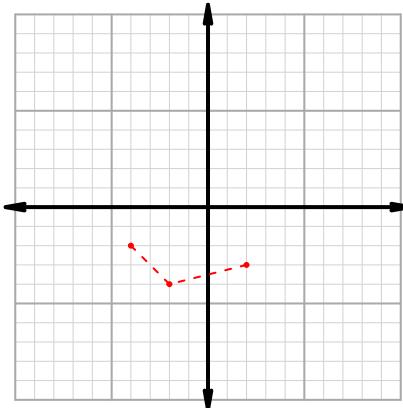
Intervals, Transformations, and Slope EXAM (version 153)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

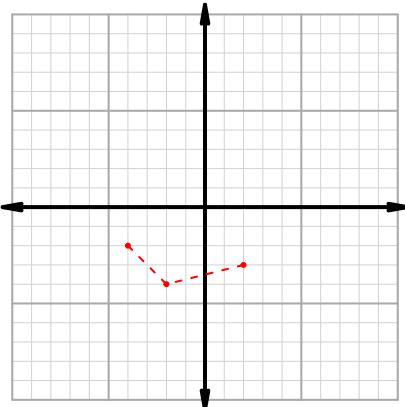
$$y = 2 \cdot f(x)$$



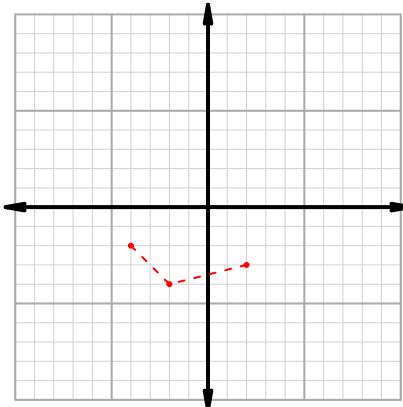
$$y = f(-2 \cdot x)$$



$$y = f(x + 2)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 33$ and $x_2 = 89$. Express your answer as a reduced fraction.

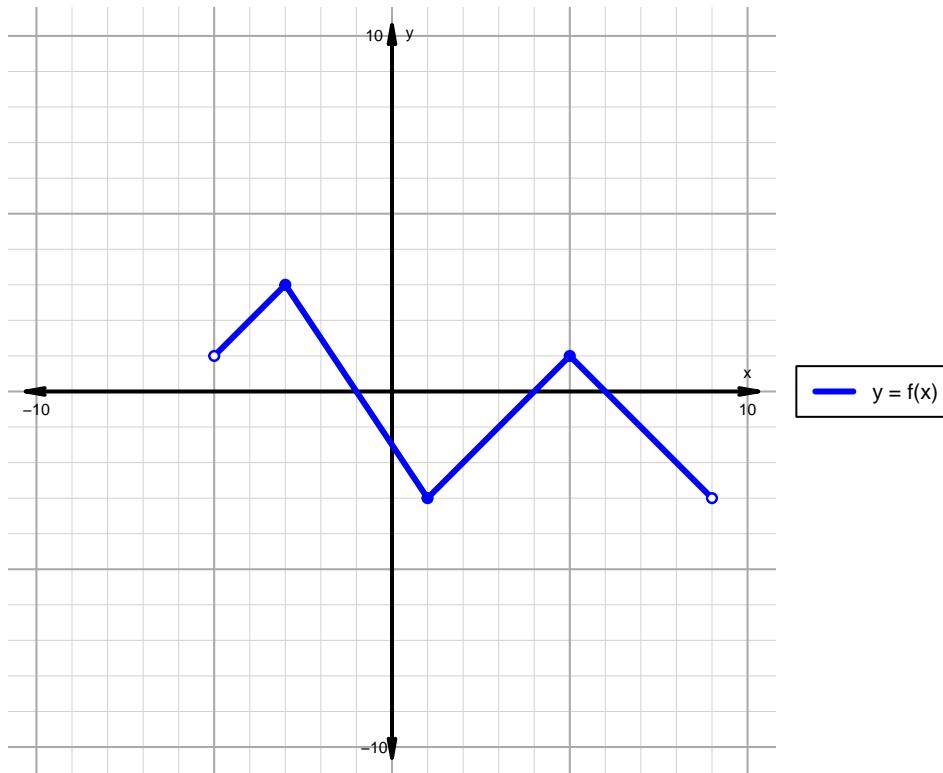
x	$g(x)$
31	89
33	31
89	95
95	33

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 154)

1. The function f is graphed below.



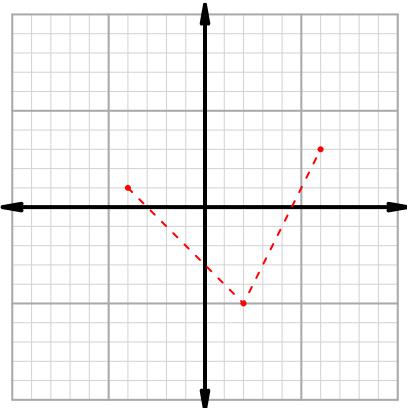
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

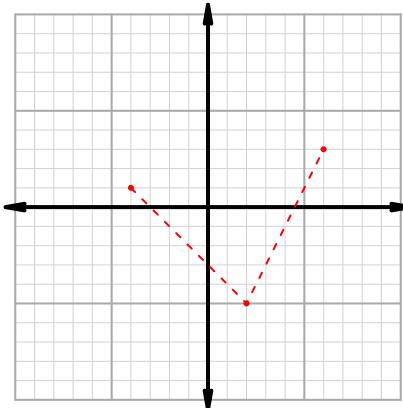
Intervals, Transformations, and Slope EXAM (version 154)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

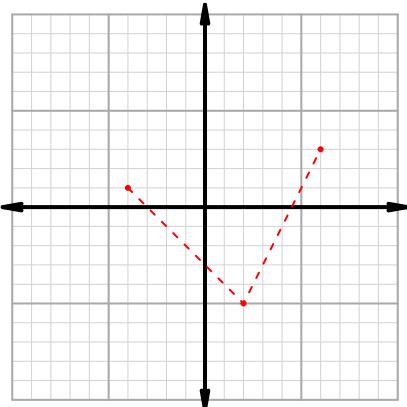
$$y = f(2 \cdot x)$$



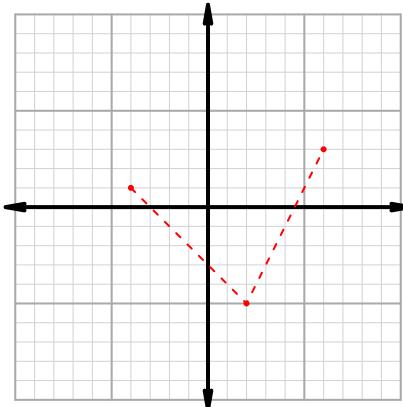
$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 19$ and $x_2 = 91$. Express your answer as a reduced fraction.

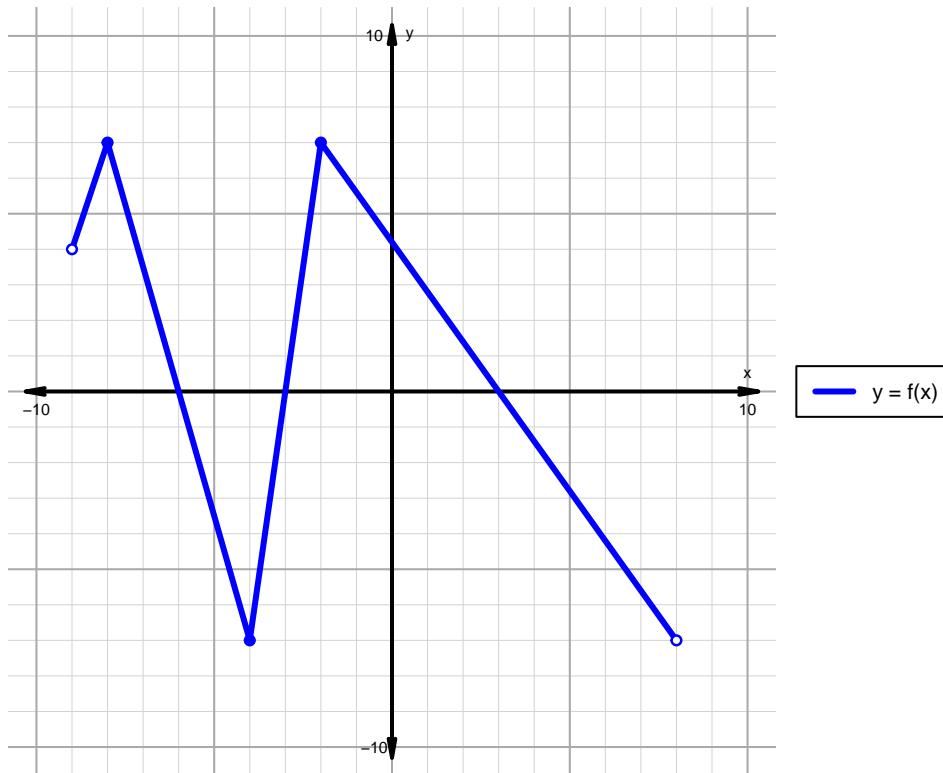
x	$g(x)$
19	26
26	91
89	19
91	89

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 155)

1. The function f is graphed below.



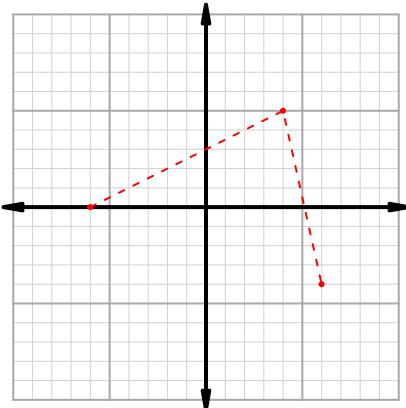
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

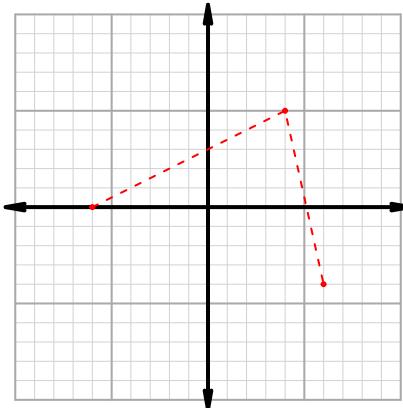
Intervals, Transformations, and Slope EXAM (version 155)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

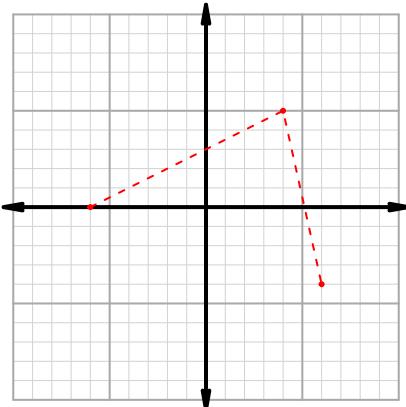
$$y = f(x) - 2$$



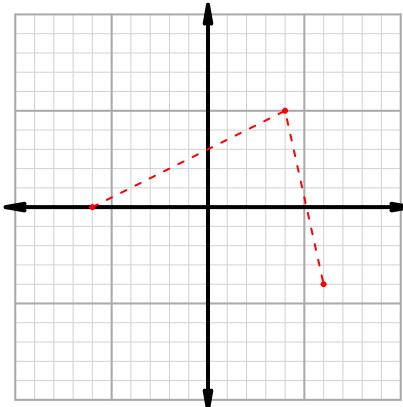
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 17$ and $x_2 = 62$. Express your answer as a reduced fraction.

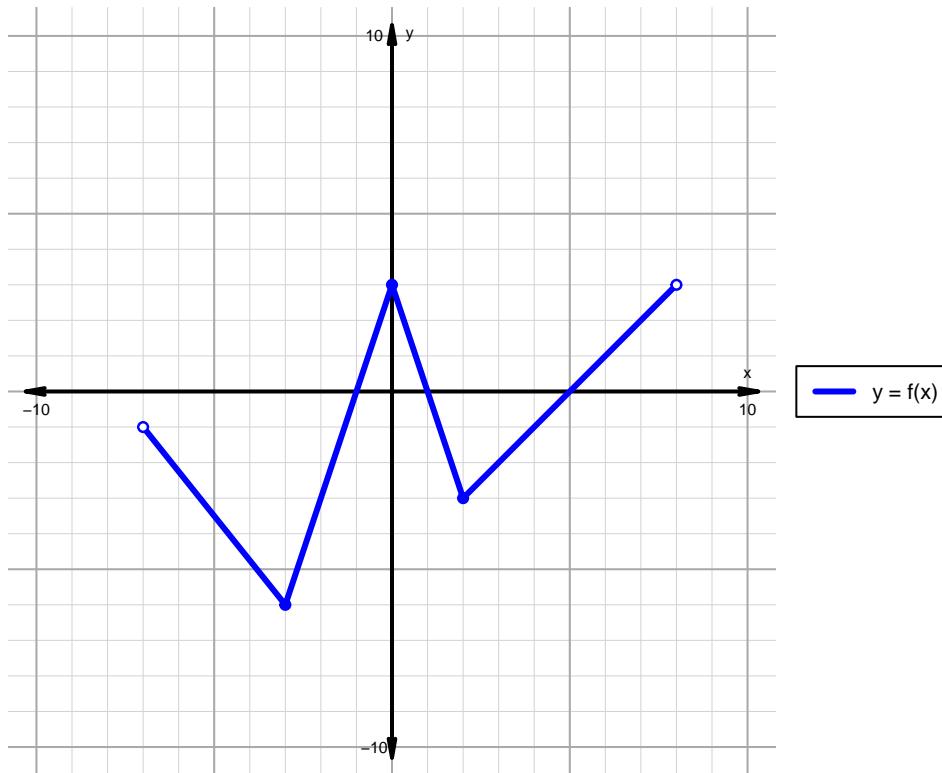
x	$g(x)$
17	73
62	83
73	62
83	17

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 156)

1. The function f is graphed below.



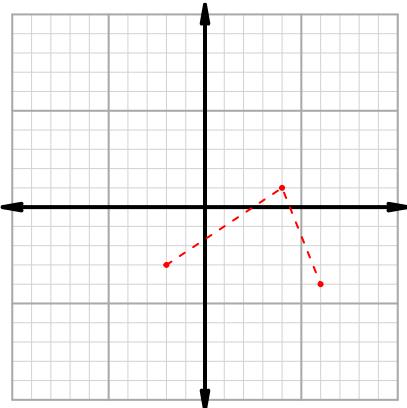
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

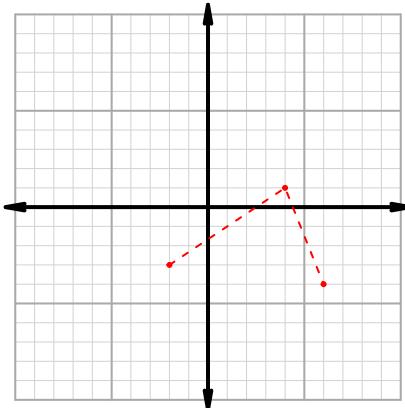
Intervals, Transformations, and Slope EXAM (version 156)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

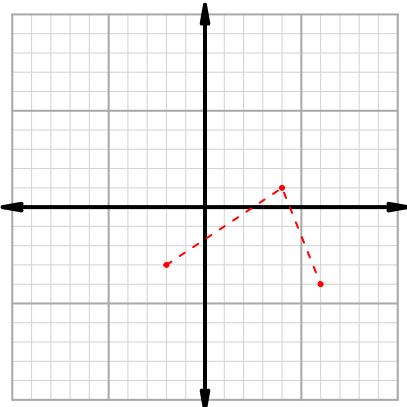
$$y = f(x - 2)$$



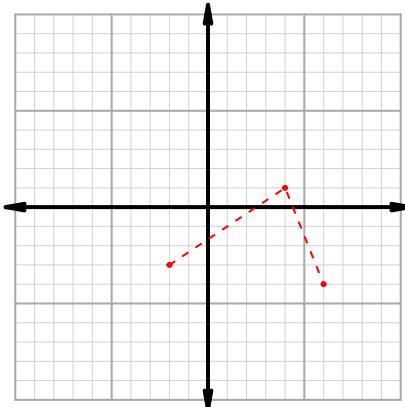
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 15$ and $x_2 = 50$. Express your answer as a reduced fraction.

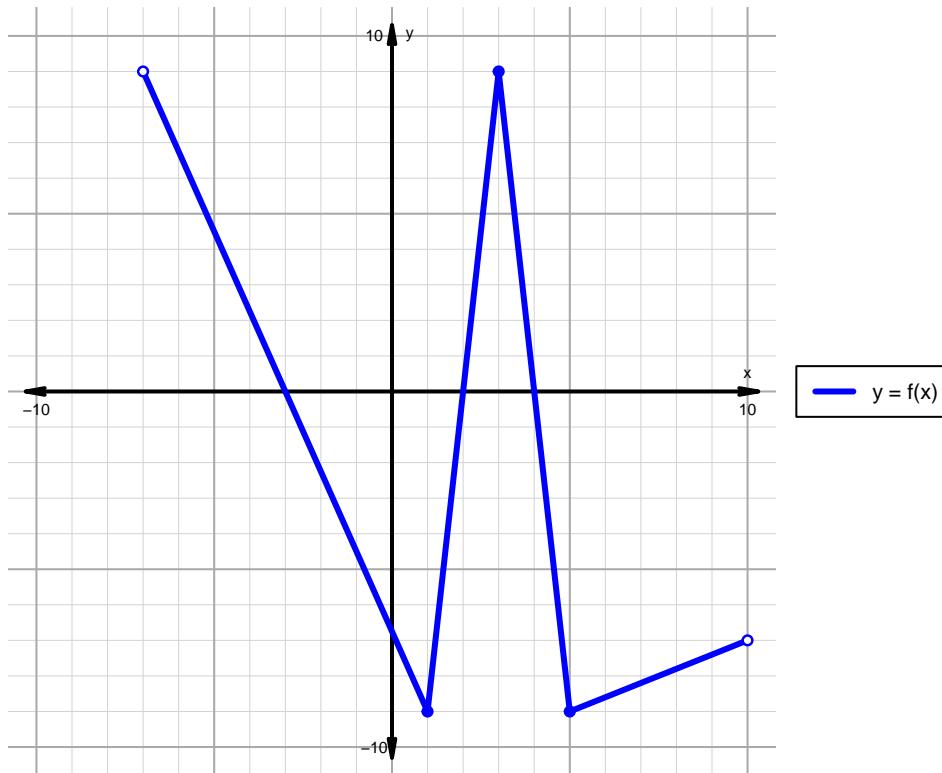
x	$g(x)$
15	75
30	15
50	30
75	50

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 157)

1. The function f is graphed below.



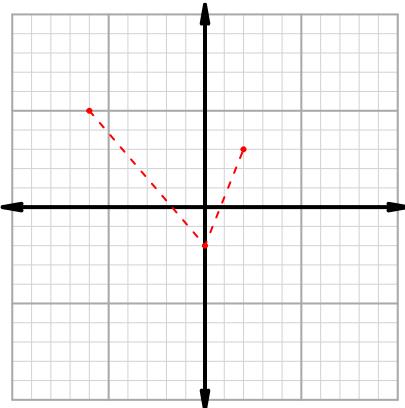
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

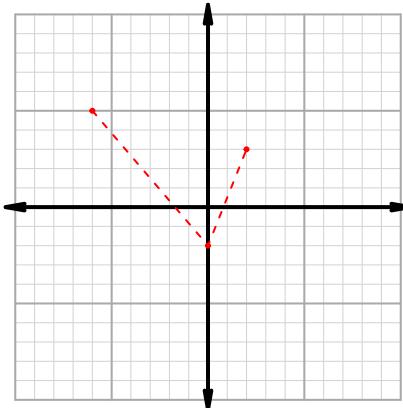
Intervals, Transformations, and Slope EXAM (version 157)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

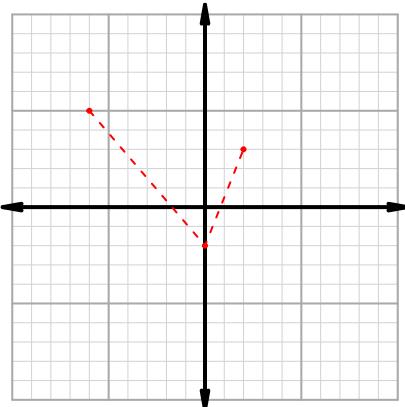
$$y = f(2 \cdot x)$$



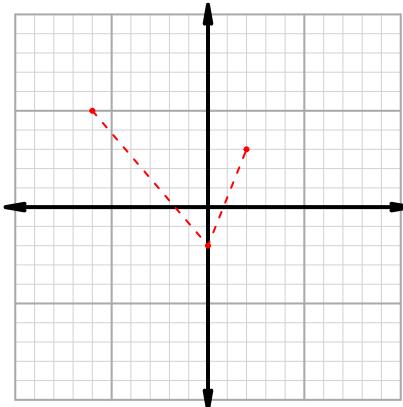
$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 16$ and $x_2 = 44$. Express your answer as a reduced fraction.

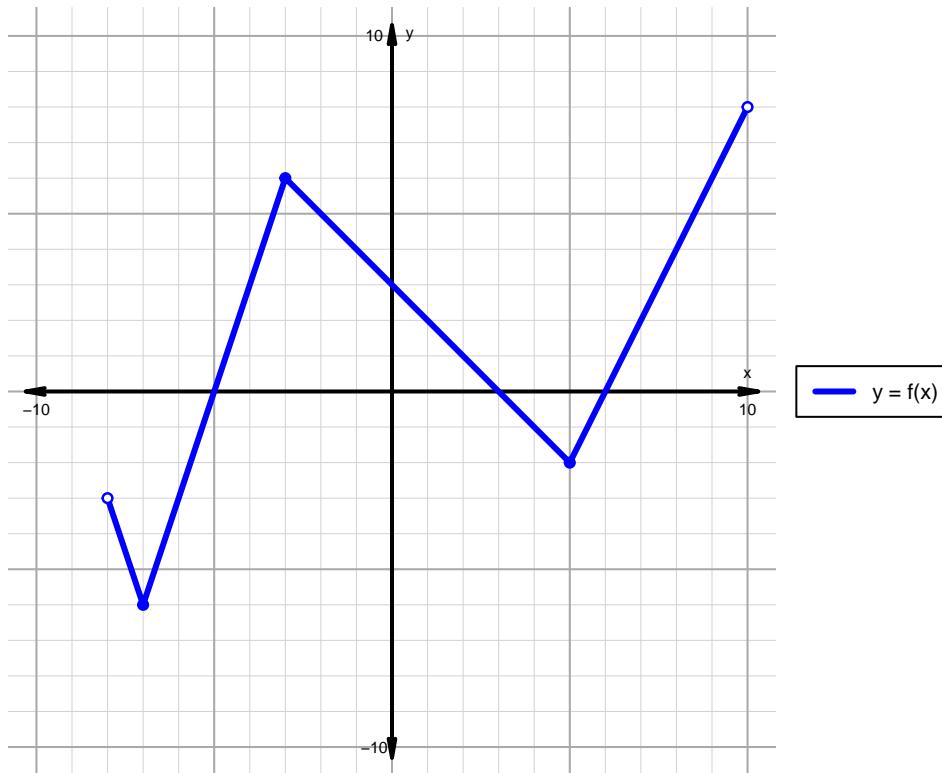
x	$g(x)$
16	67
35	16
44	35
67	44

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 158)

1. The function f is graphed below.



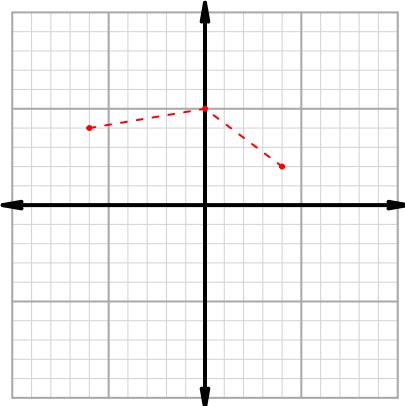
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

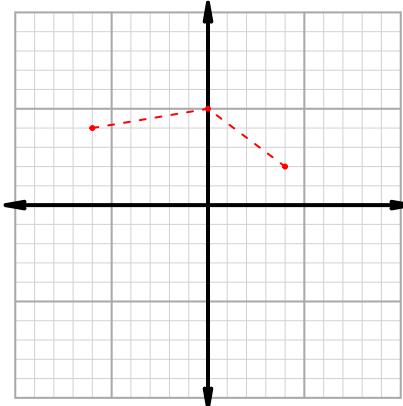
Intervals, Transformations, and Slope EXAM (version 158)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

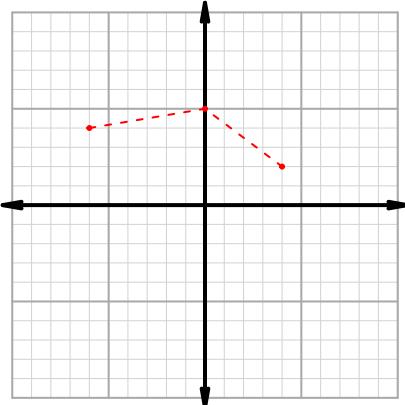
$$y = -2 \cdot f(x)$$



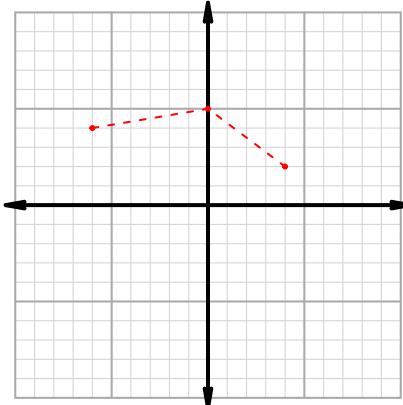
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = f(x + 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 47$ and $x_2 = 87$. Express your answer as a reduced fraction.

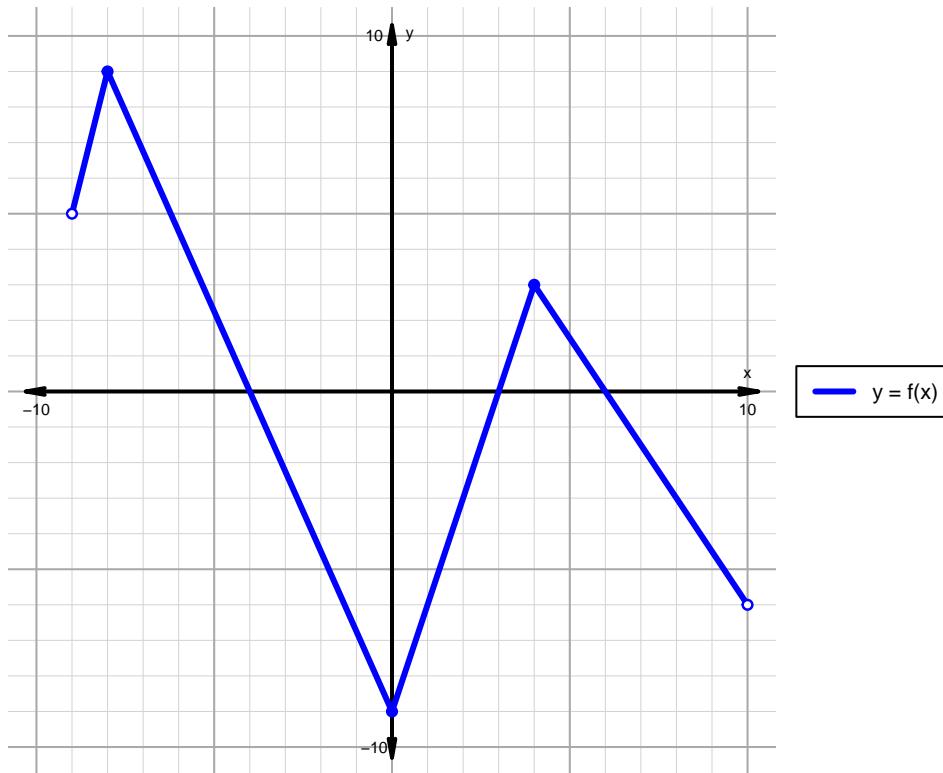
x	$g(x)$
15	47
47	60
60	87
87	15

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 159)

1. The function f is graphed below.



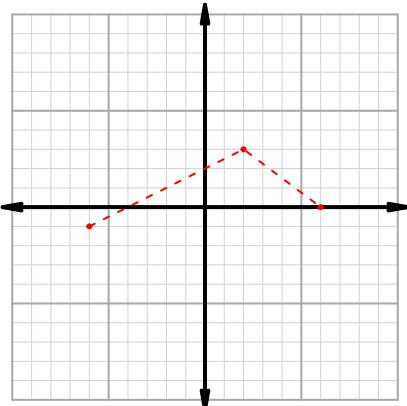
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

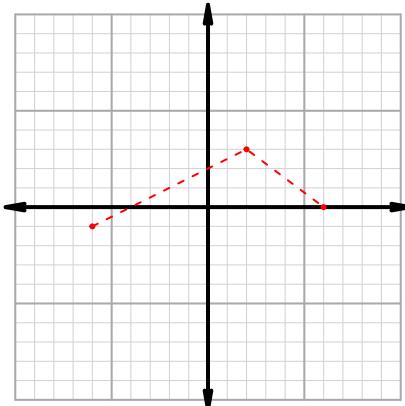
Intervals, Transformations, and Slope EXAM (version 159)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

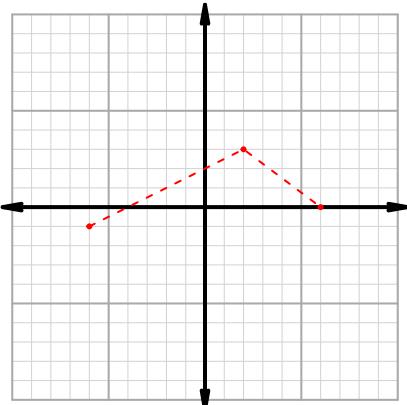
$$y = f(2 \cdot x)$$



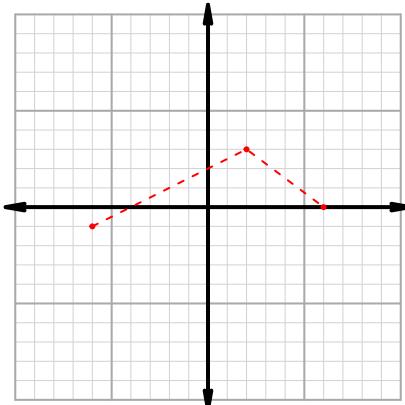
$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 28$ and $x_2 = 73$. Express your answer as a reduced fraction.

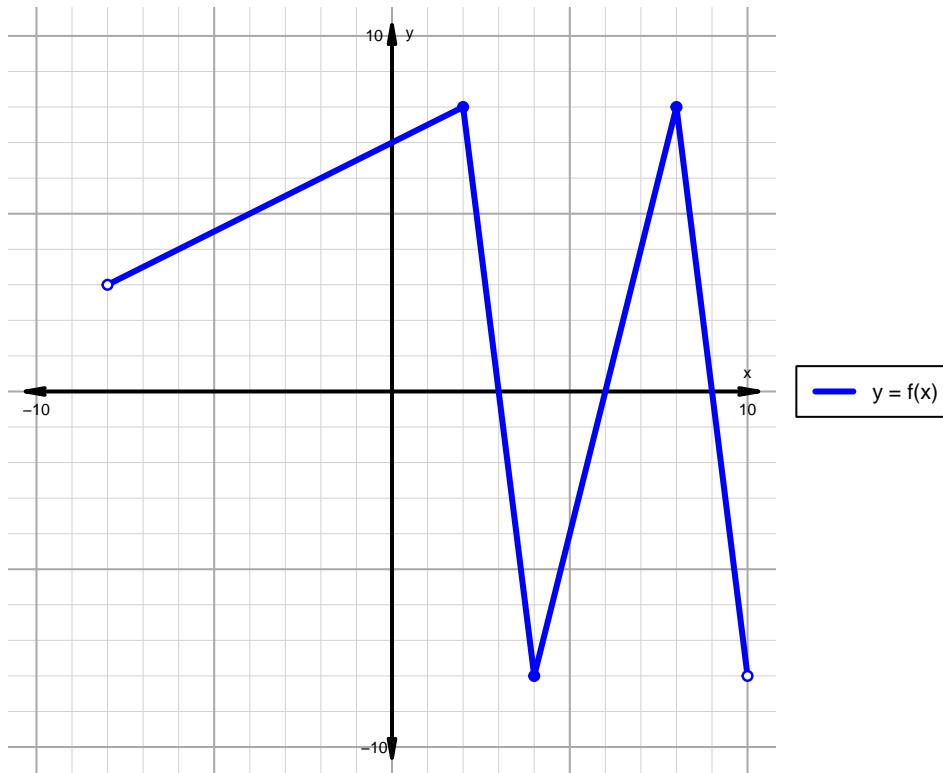
x	$g(x)$
18	73
28	18
73	81
81	28

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 160)

1. The function f is graphed below.



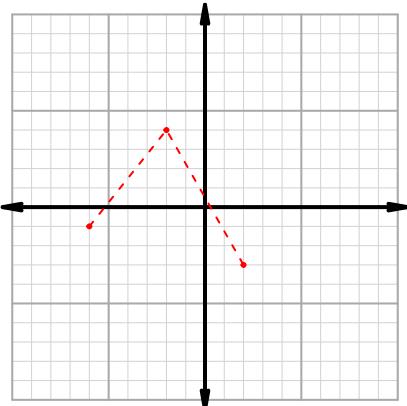
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

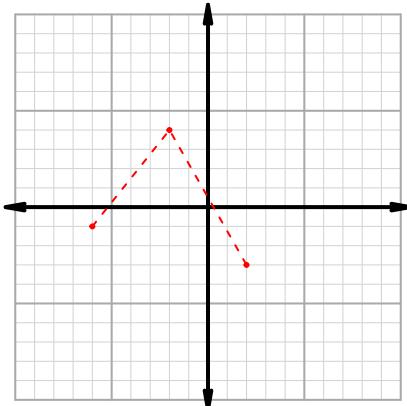
Intervals, Transformations, and Slope EXAM (version 160)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

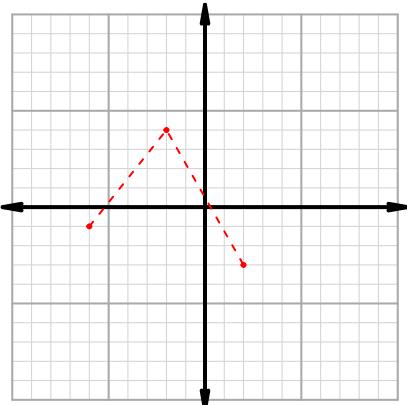
$$y = f(x+2)$$



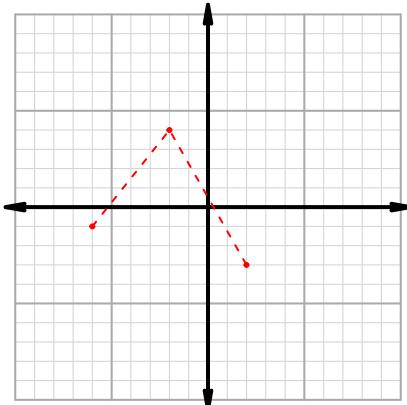
$$y = -2 \cdot f(x)$$



$$y = f(x) + 2$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 47$ and $x_2 = 83$. Express your answer as a reduced fraction.

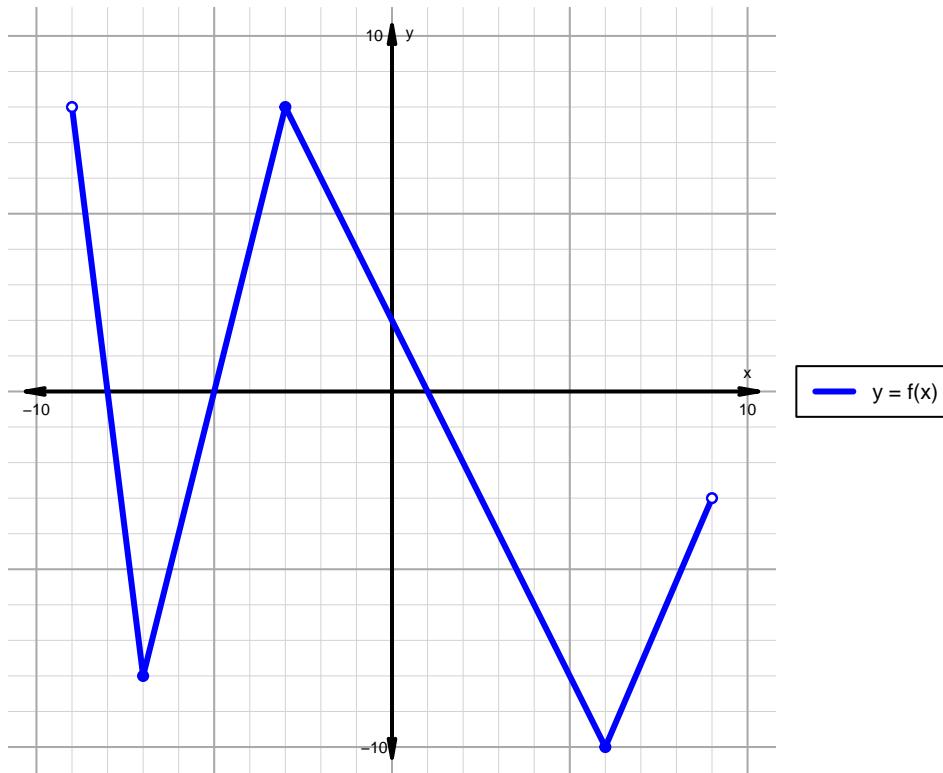
x	$g(x)$
18	83
47	18
48	47
83	48

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 161)

1. The function f is graphed below.



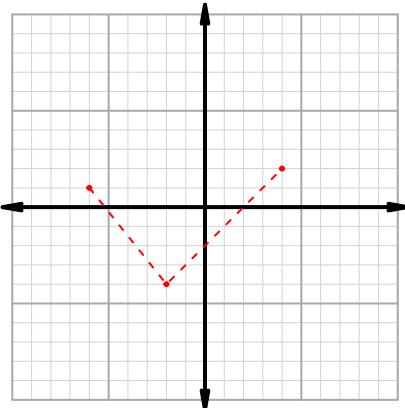
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

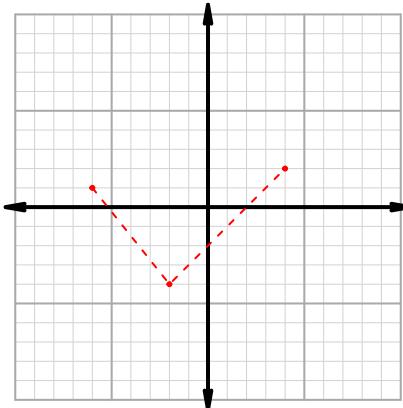
Intervals, Transformations, and Slope EXAM (version 161)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

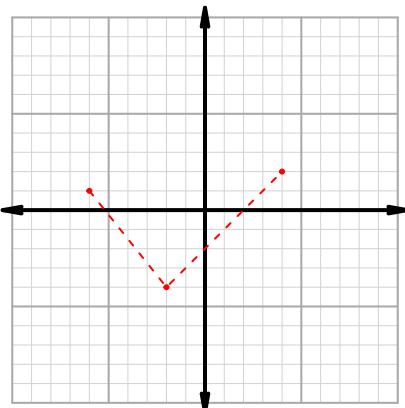
$$y = 2 \cdot f(x)$$



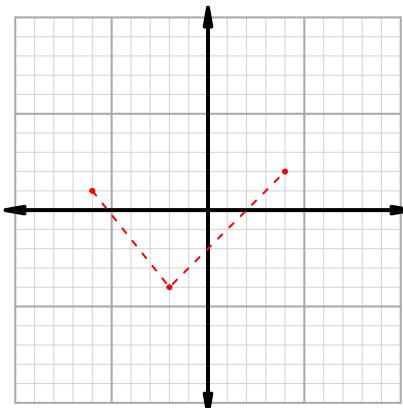
$$y = f(x) + 2$$



$$y = f(x+2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 32$ and $x_2 = 47$. Express your answer as a reduced fraction.

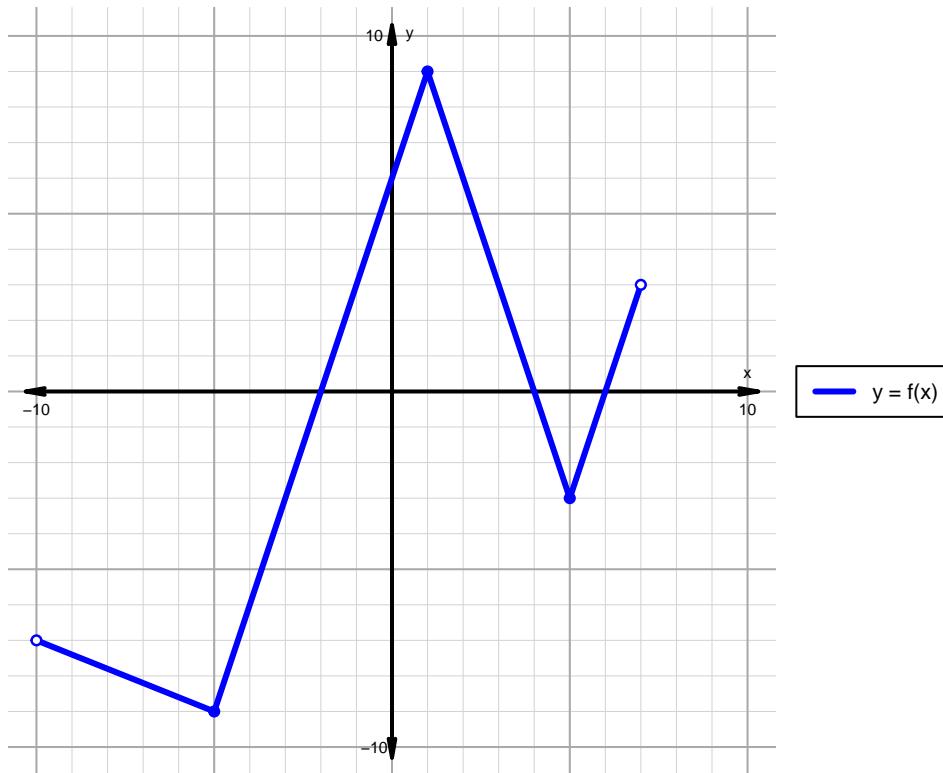
x	$g(x)$
32	54
47	72
54	47
72	32

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 162)

1. The function f is graphed below.



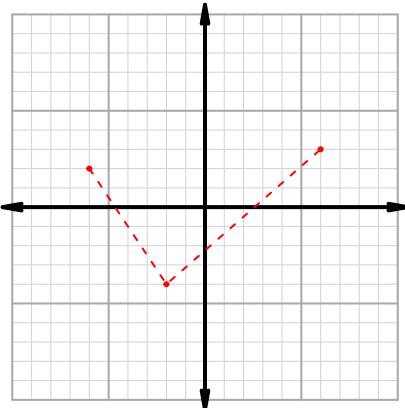
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

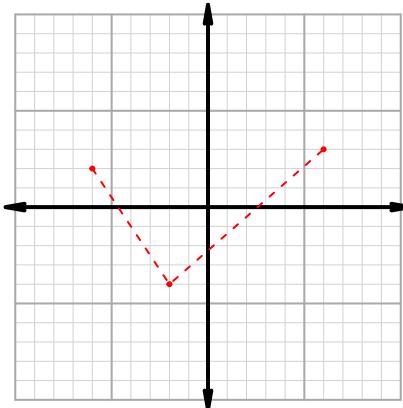
Intervals, Transformations, and Slope EXAM (version 162)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

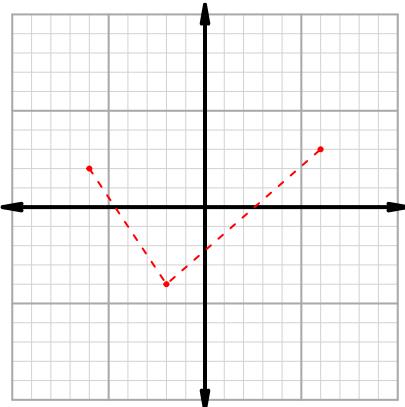
$$y = f(x) - 2$$



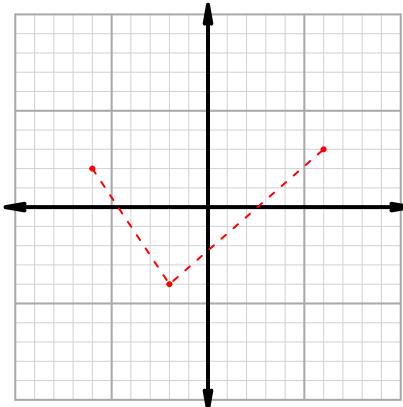
$$y = 2 \cdot f(x)$$



$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 21$ and $x_2 = 35$. Express your answer as a reduced fraction.

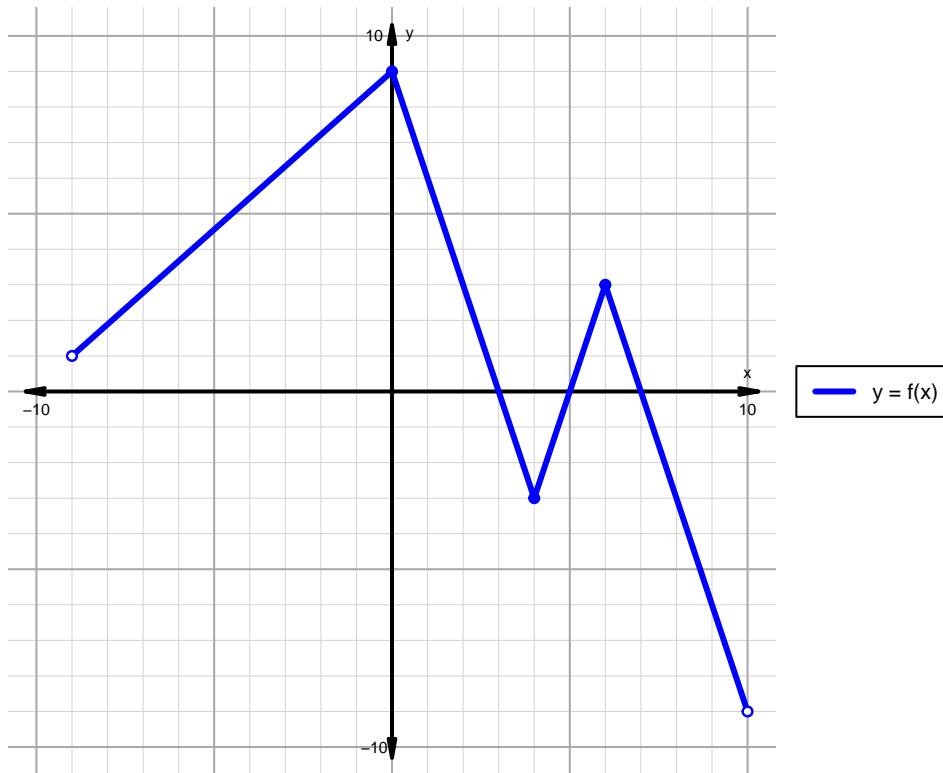
x	$g(x)$
21	33
27	21
33	35
35	27

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 163)

1. The function f is graphed below.



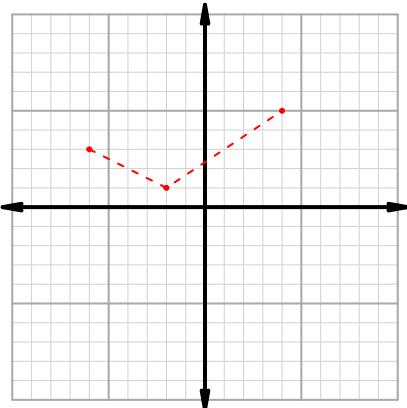
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

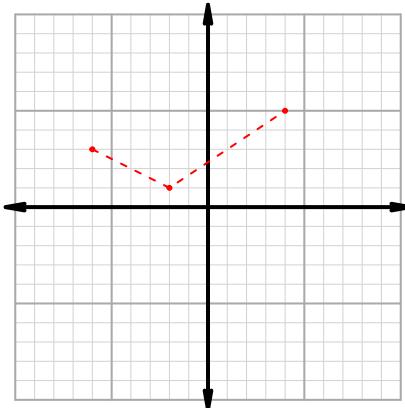
Intervals, Transformations, and Slope EXAM (version 163)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

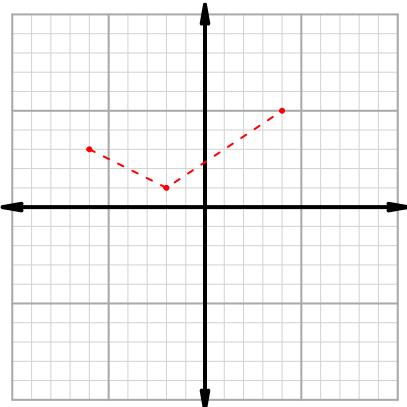
$$y = f(x) + 2$$



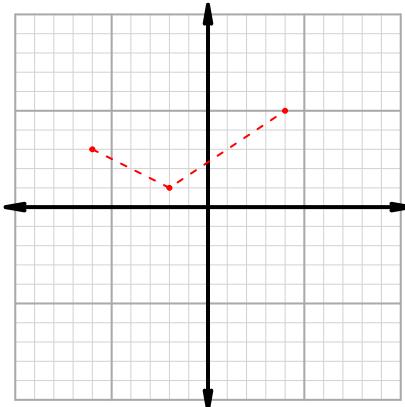
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 25$ and $x_2 = 65$. Express your answer as a reduced fraction.

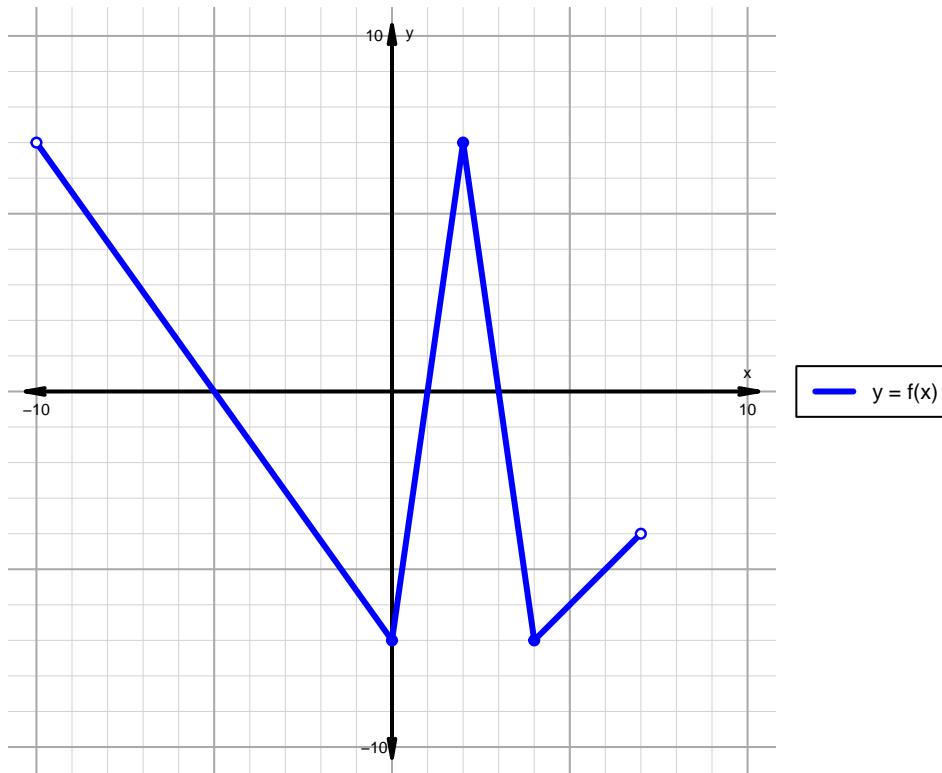
x	$g(x)$
25	96
65	71
71	25
96	65

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 164)

1. The function f is graphed below.



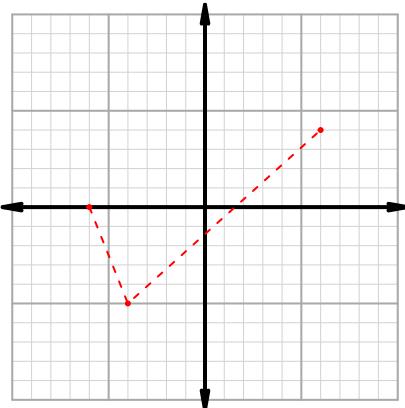
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

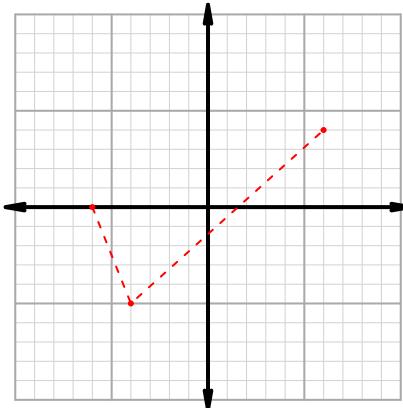
Intervals, Transformations, and Slope EXAM (version 164)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

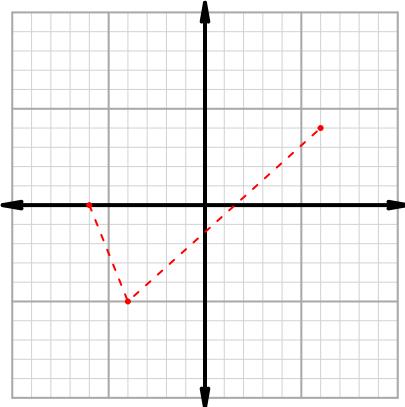
$$y = 2 \cdot f(x)$$



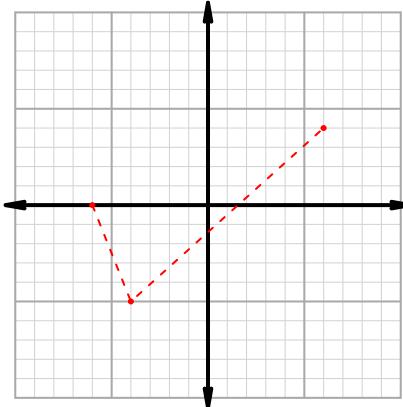
$$y = f(x + 2)$$



$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 17$ and $x_2 = 52$. Express your answer as a reduced fraction.

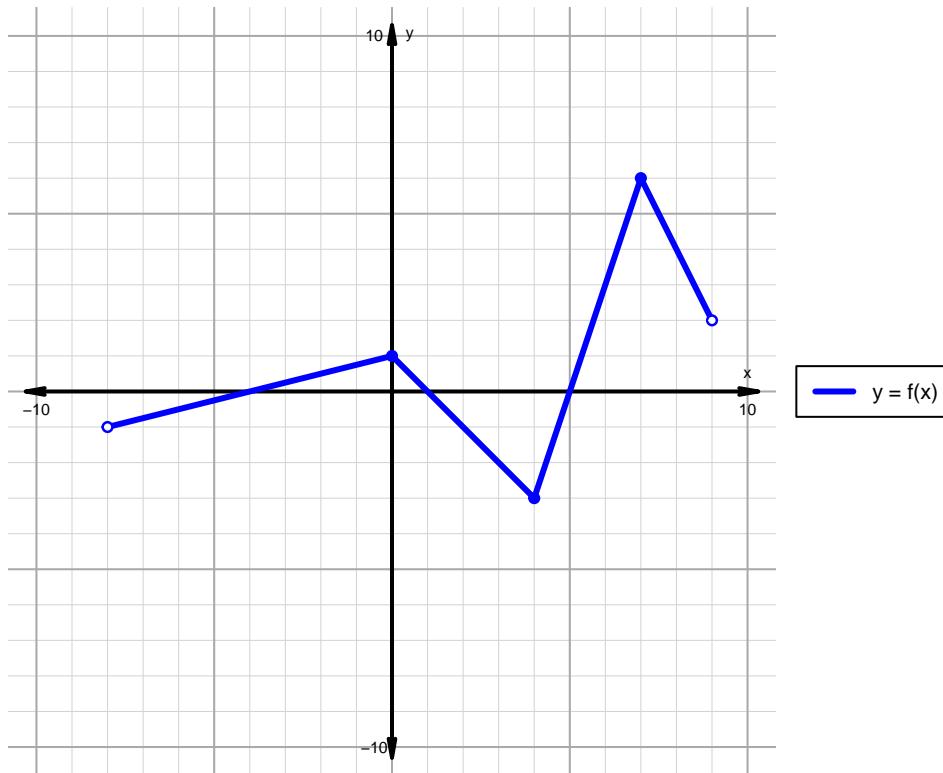
x	$g(x)$
17	27
27	52
42	17
52	42

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 165)

1. The function f is graphed below.



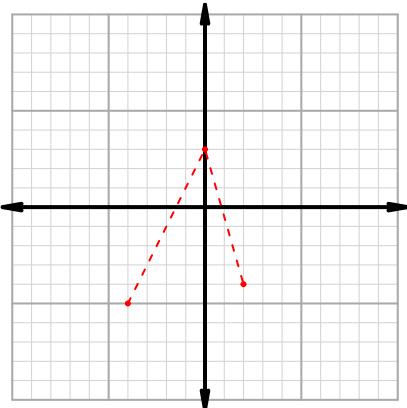
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

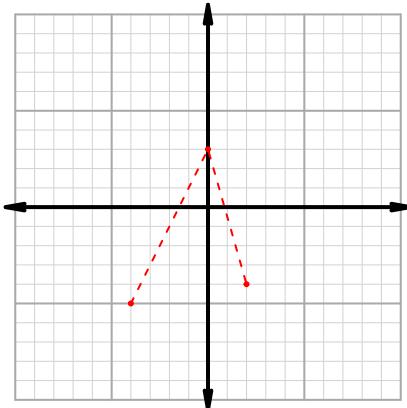
Intervals, Transformations, and Slope EXAM (version 165)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

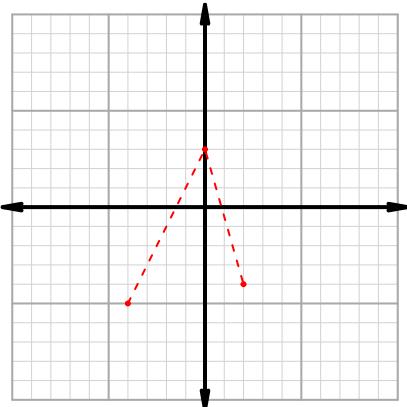
$$y = f(x+2)$$



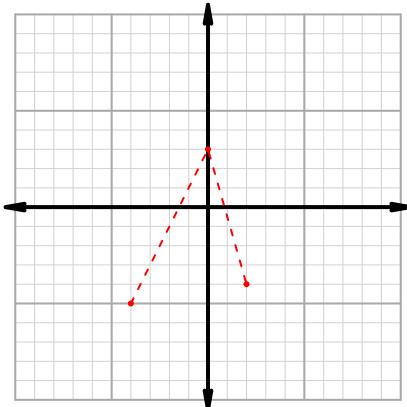
$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 42$ and $x_2 = 63$. Express your answer as a reduced fraction.

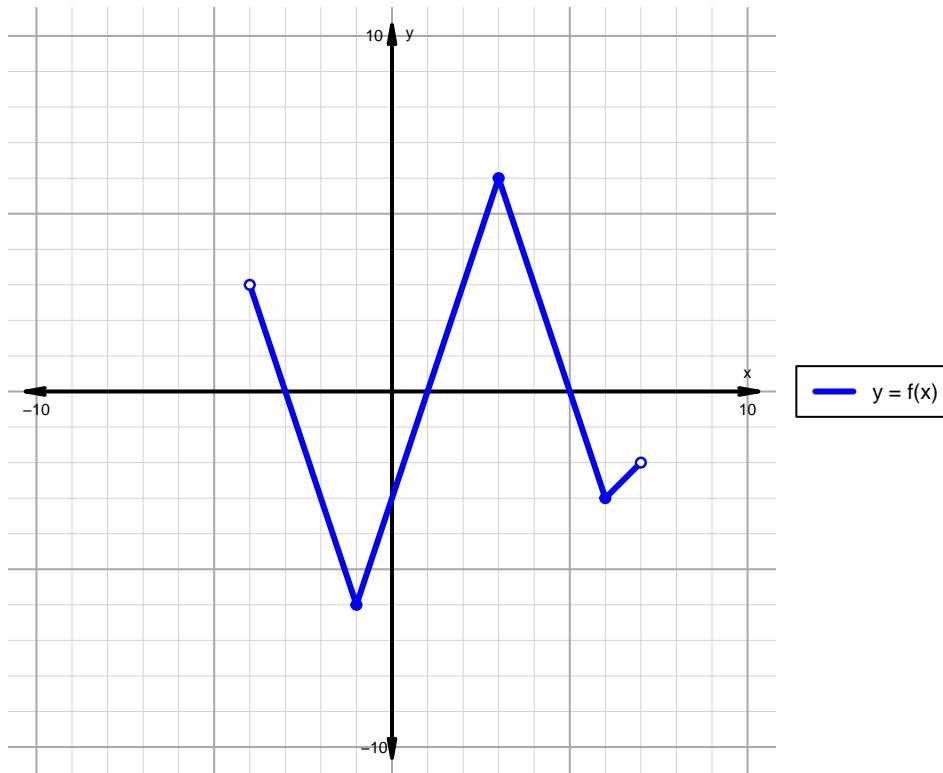
x	$g(x)$
40	63
42	40
55	42
63	55

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 166)

1. The function f is graphed below.



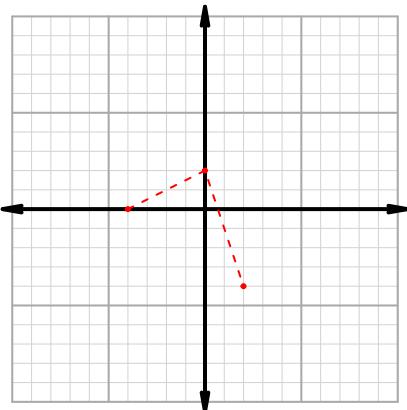
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

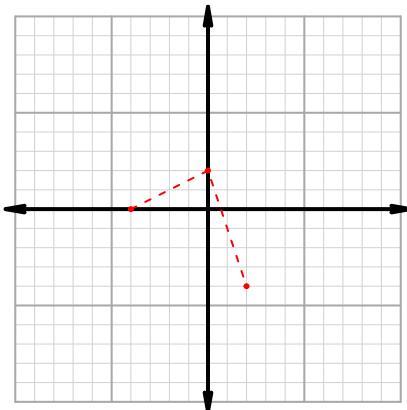
Intervals, Transformations, and Slope EXAM (version 166)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

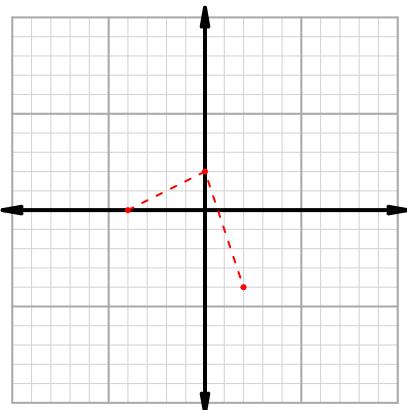
$$y = f(x) + 2$$



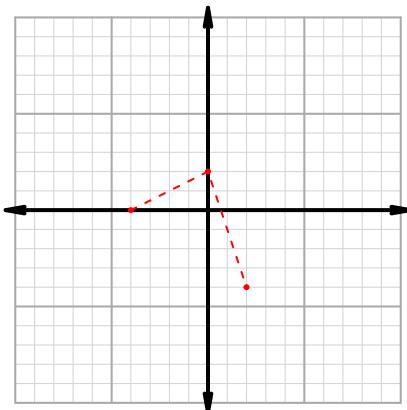
$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 52$ and $x_2 = 70$. Express your answer as a reduced fraction.

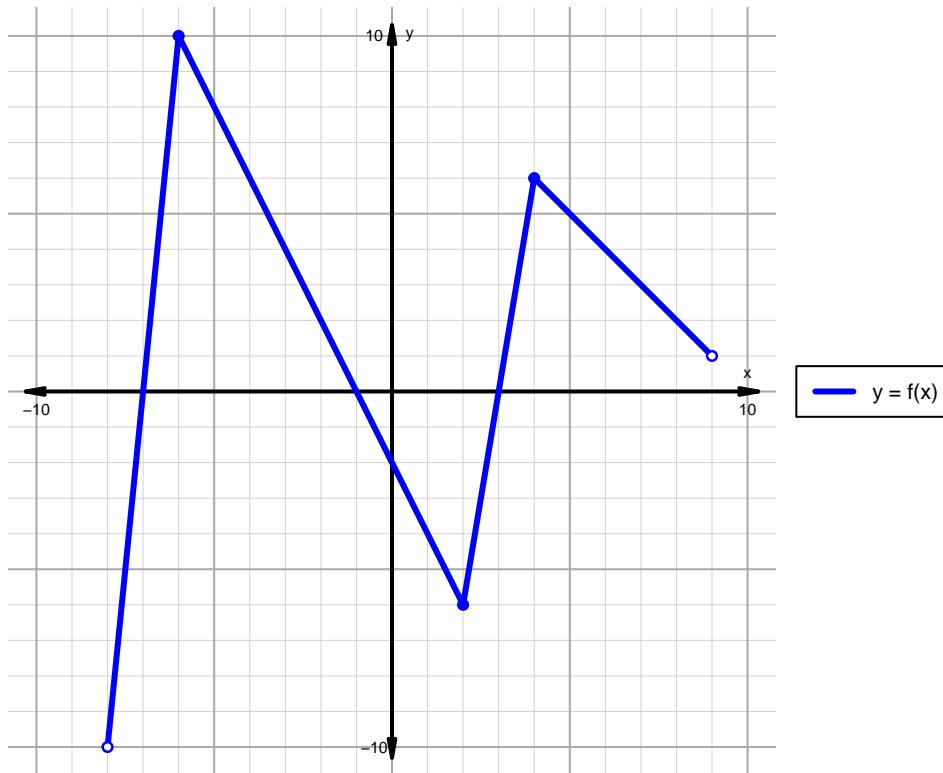
x	$g(x)$
42	52
48	70
52	48
70	42

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 167)

1. The function f is graphed below.



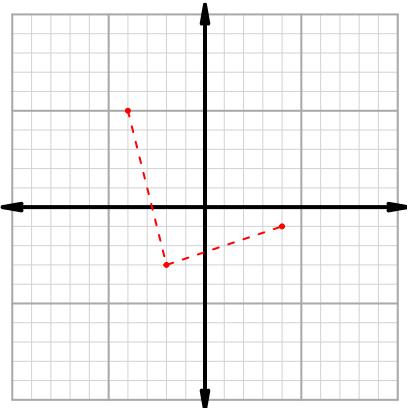
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

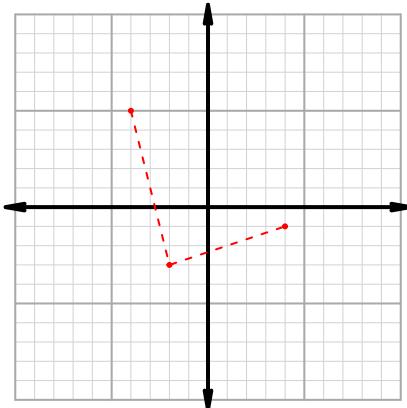
Intervals, Transformations, and Slope EXAM (version 167)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

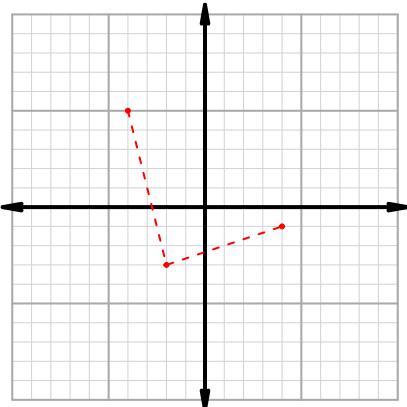
$$y = 2 \cdot f(x)$$



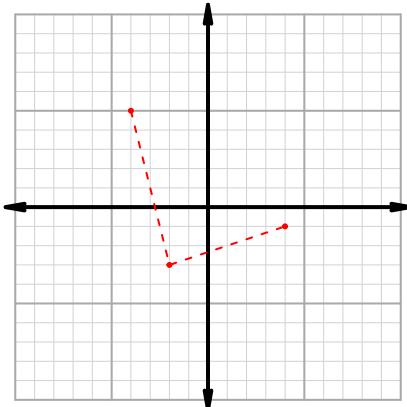
$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 64$ and $x_2 = 80$. Express your answer as a reduced fraction.

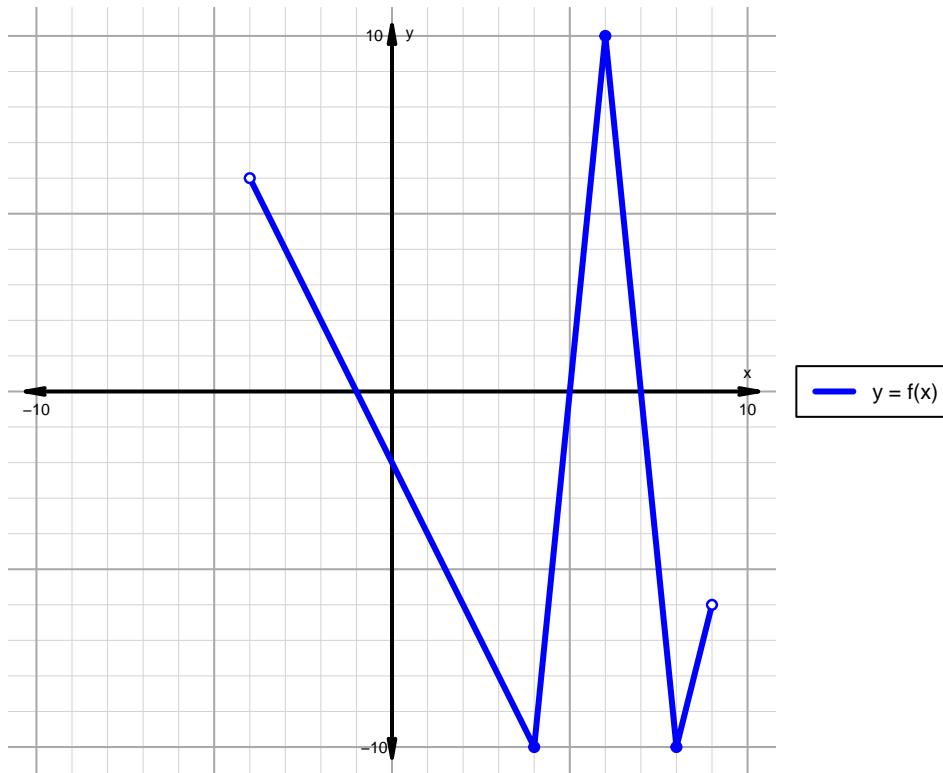
x	$g(x)$
35	64
45	80
64	45
80	35

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 168)

1. The function f is graphed below.



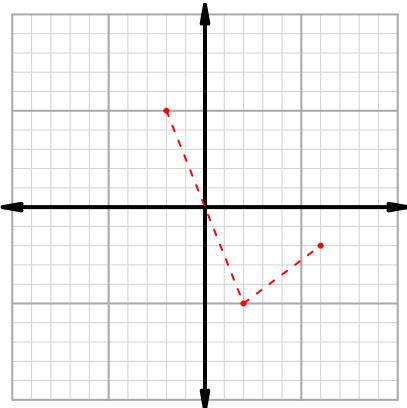
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

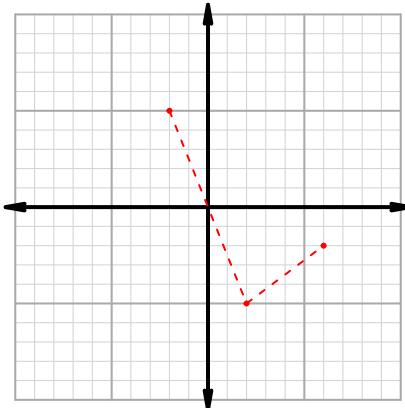
Intervals, Transformations, and Slope EXAM (version 168)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

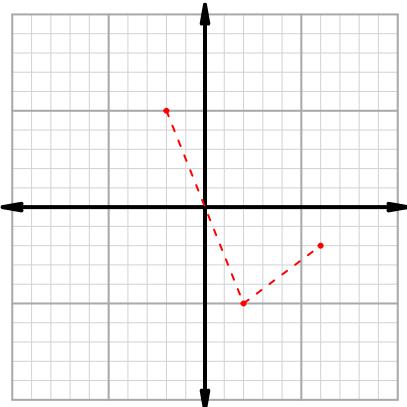
$$y = f(2 \cdot x)$$



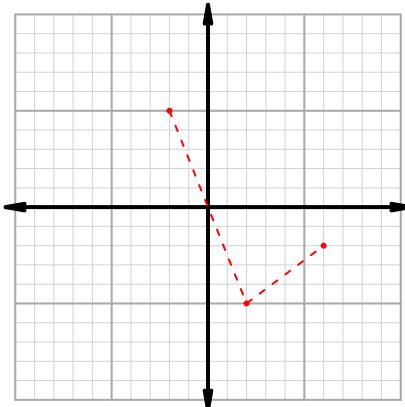
$$y = f(x) + 2$$



$$y = 2 \cdot f(x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 53$ and $x_2 = 78$. Express your answer as a reduced fraction.

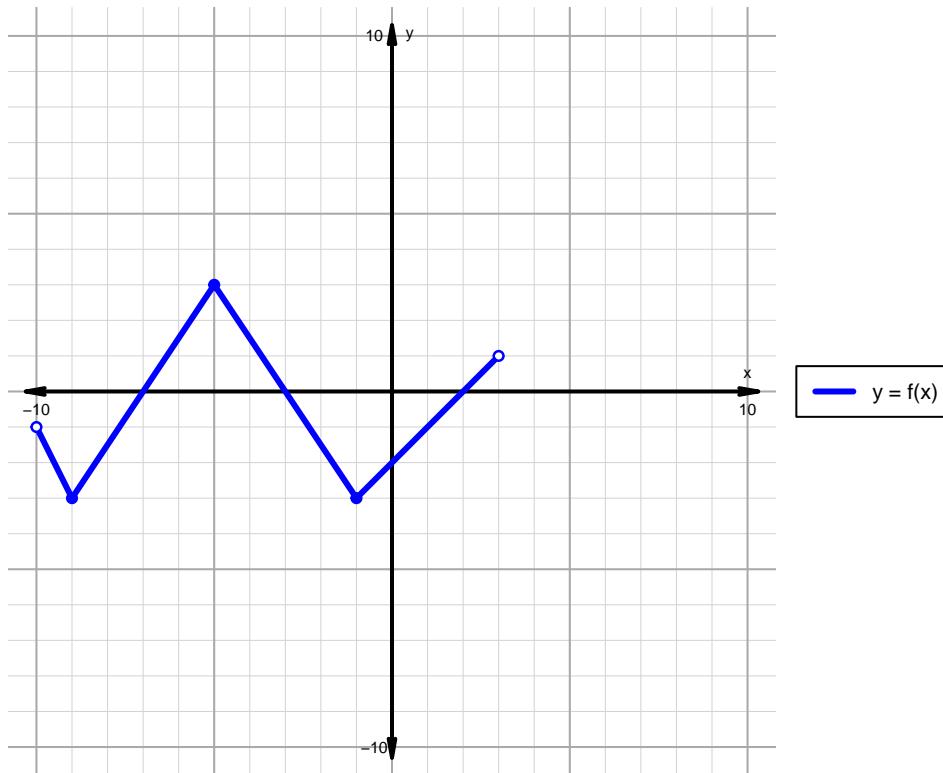
x	$g(x)$
53	85
75	53
78	75
85	78

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 169)

1. The function f is graphed below.



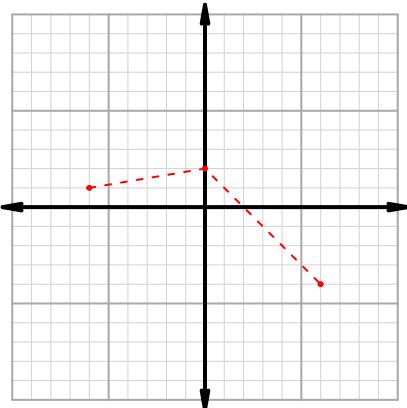
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

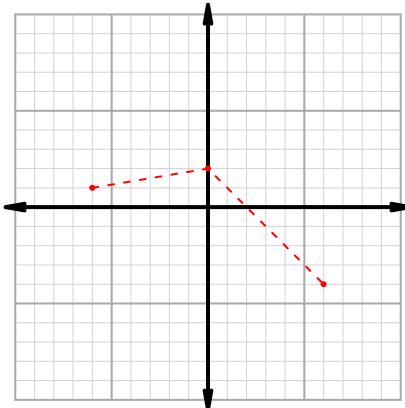
Intervals, Transformations, and Slope EXAM (version 169)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

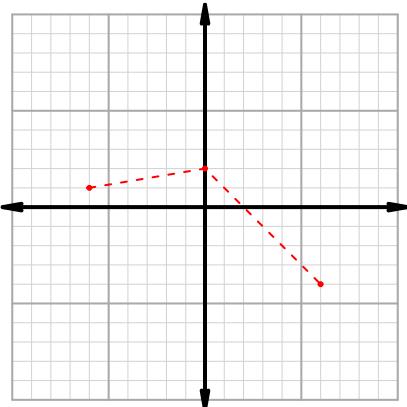
$$y = f(2 \cdot x)$$



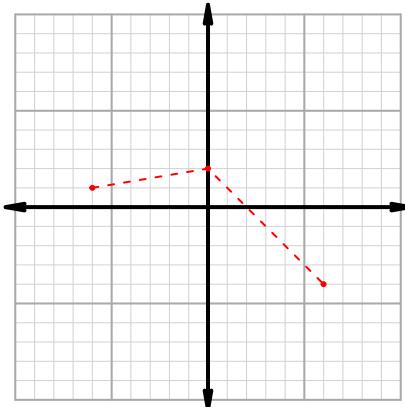
$$y = f(x) + 2$$



$$y = 2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 45$ and $x_2 = 70$. Express your answer as a reduced fraction.

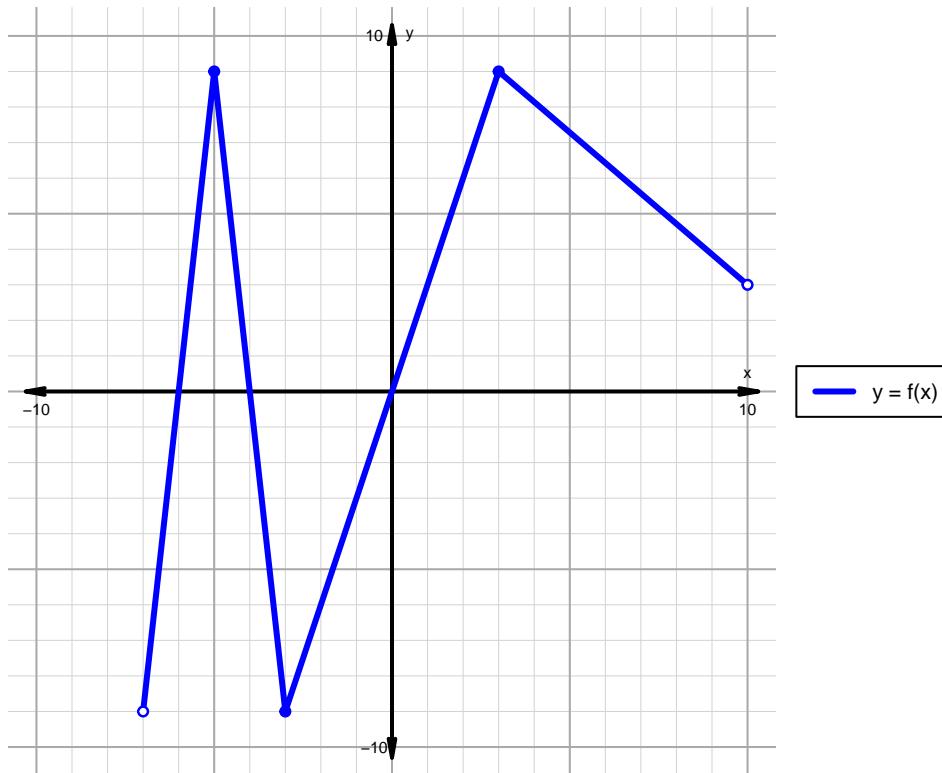
x	$g(x)$
7	45
42	70
45	42
70	7

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 170)

1. The function f is graphed below.



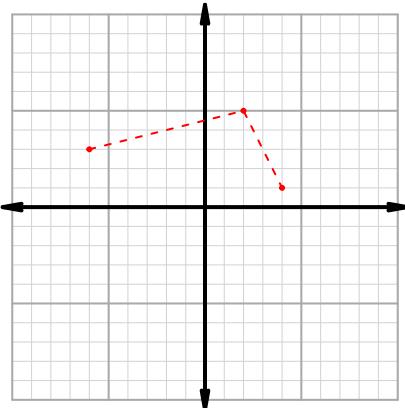
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

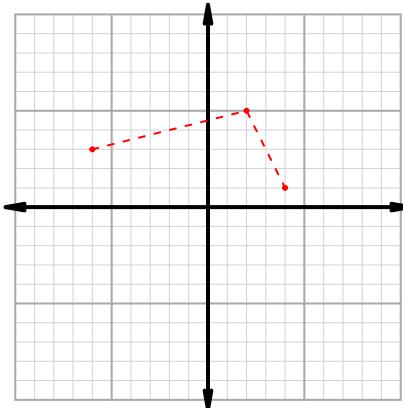
Intervals, Transformations, and Slope EXAM (version 170)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

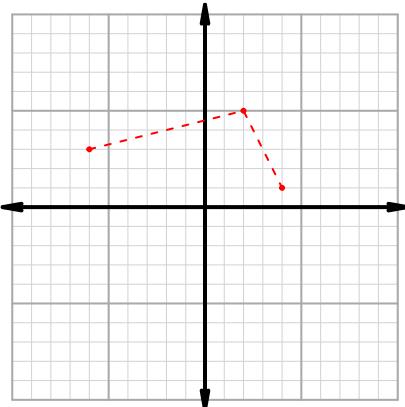
$$y = f(2 \cdot x)$$



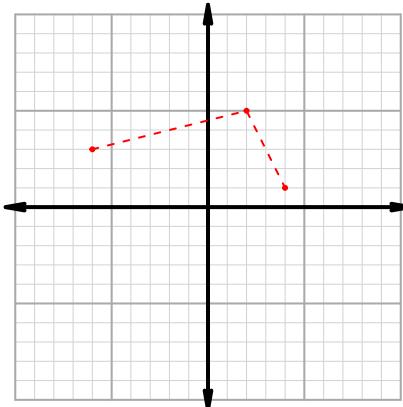
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 30$ and $x_2 = 48$. Express your answer as a reduced fraction.

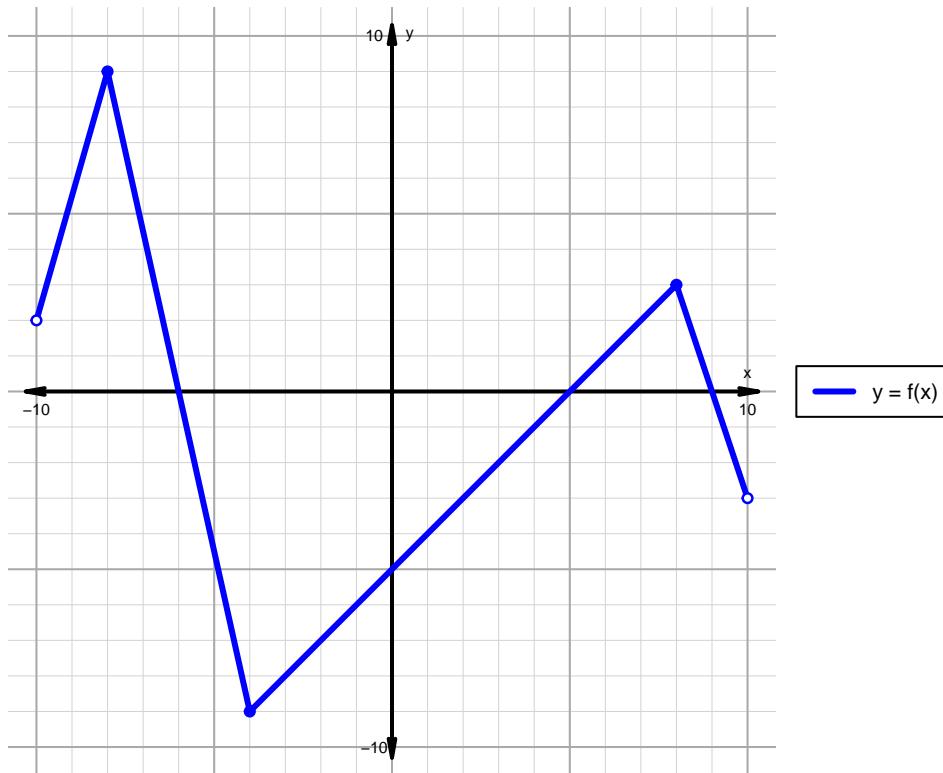
x	$g(x)$
30	55
48	71
55	48
71	30

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 171)

1. The function f is graphed below.



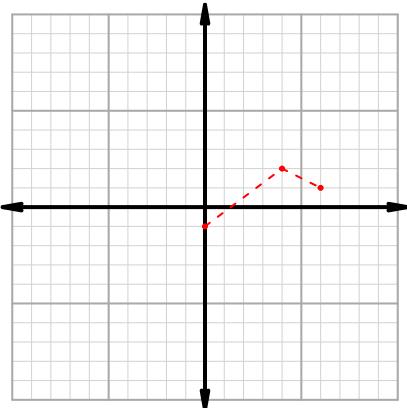
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

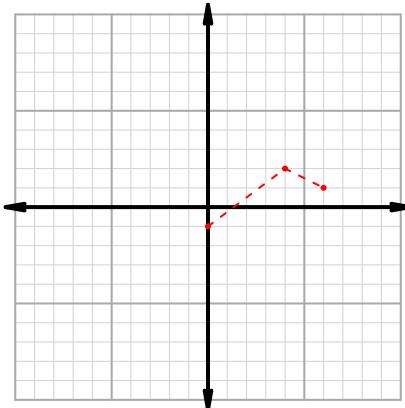
Intervals, Transformations, and Slope EXAM (version 171)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

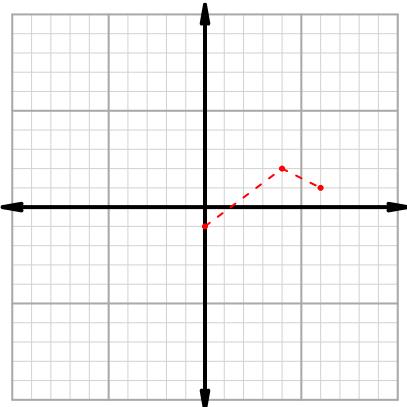
$$y = f(x - 2)$$



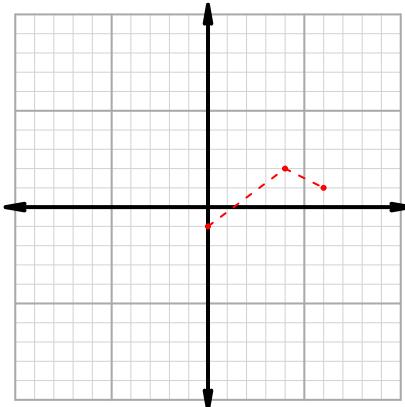
$$y = f(2 \cdot x)$$



$$y = f(x) + 2$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 29$ and $x_2 = 56$. Express your answer as a reduced fraction.

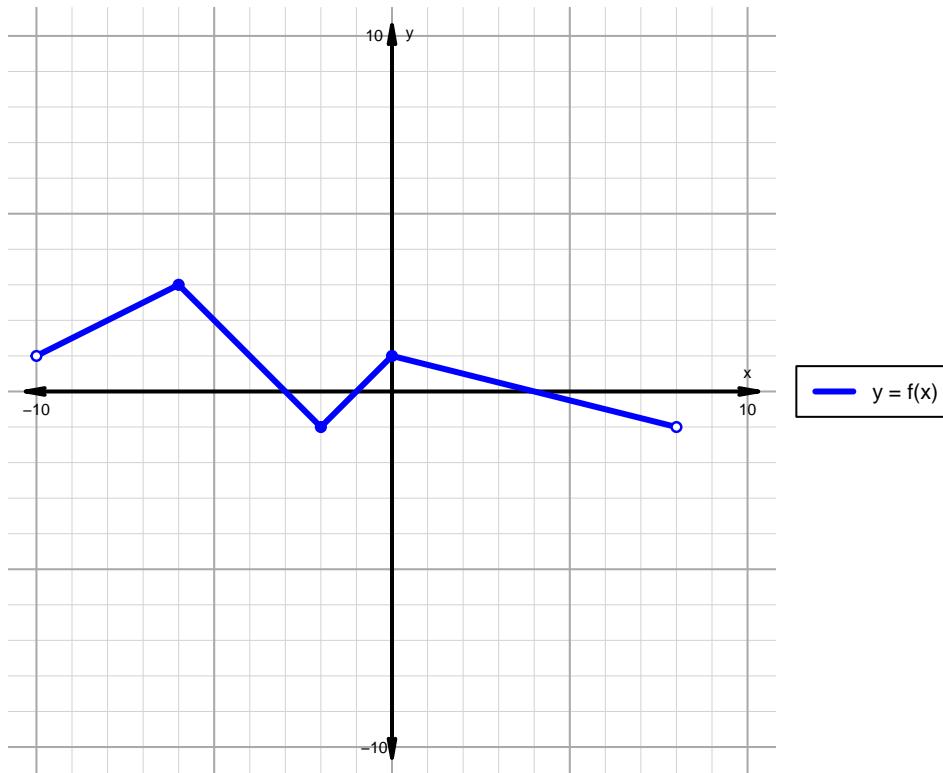
x	$g(x)$
2	29
26	56
29	26
56	2

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 172)

1. The function f is graphed below.



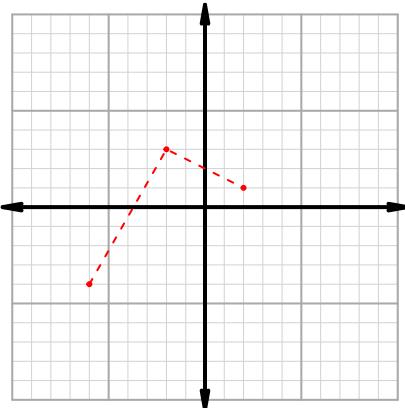
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

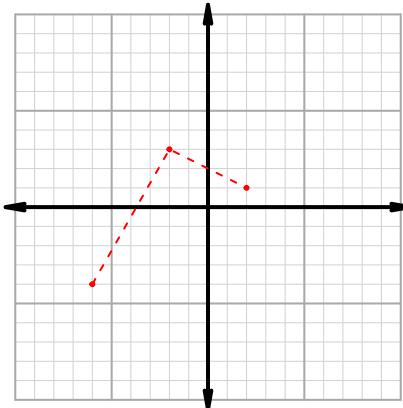
Intervals, Transformations, and Slope EXAM (version 172)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

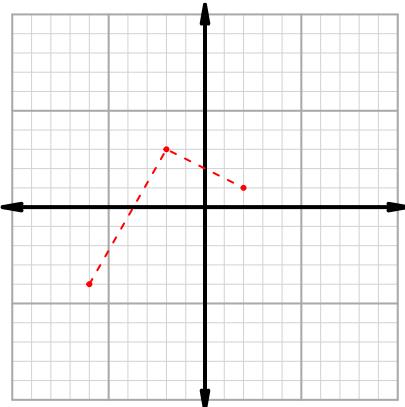
$$y = f(2 \cdot x)$$



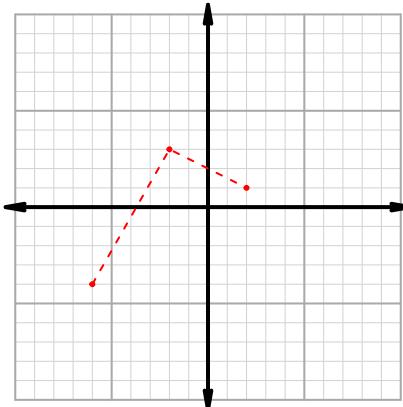
$$y = -2 \cdot f(x)$$



$$y = f(x - 2)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 37$ and $x_2 = 85$. Express your answer as a reduced fraction.

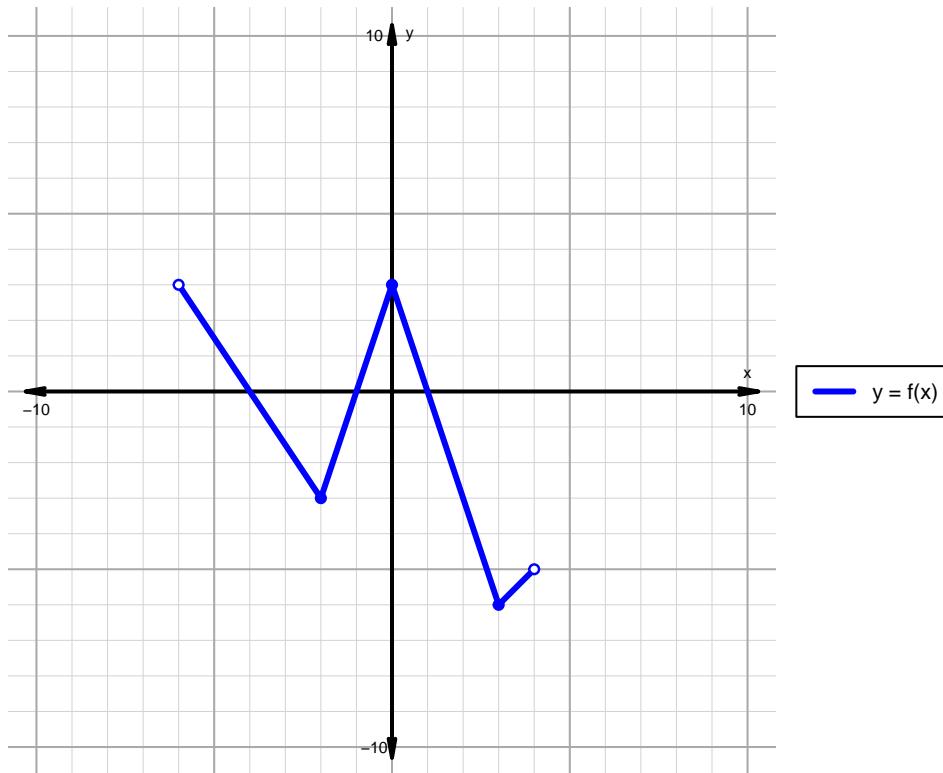
x	$g(x)$
31	85
37	31
73	37
85	73

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 173)

1. The function f is graphed below.



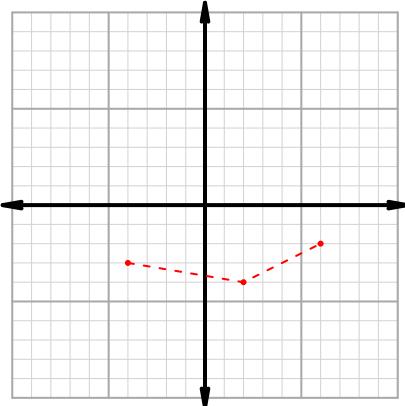
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

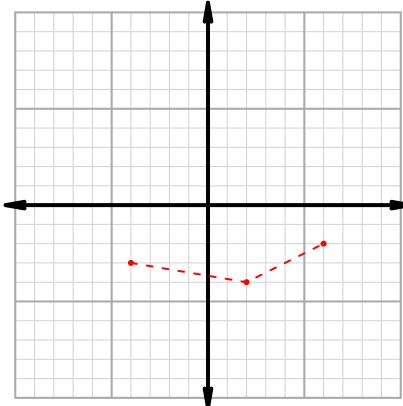
Intervals, Transformations, and Slope EXAM (version 173)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

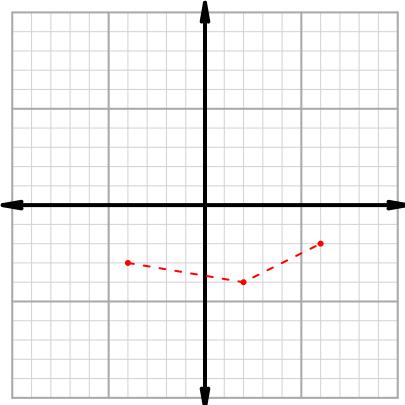
$$y = f(2 \cdot x)$$



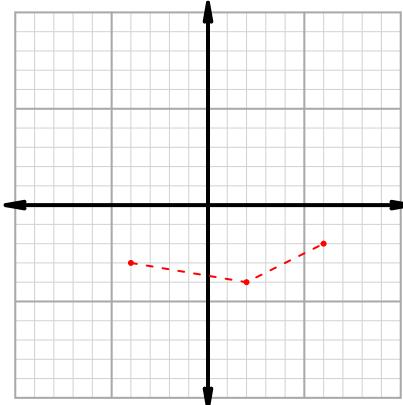
$$y = -2 \cdot f(x)$$



$$y = f(x) - 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 27$ and $x_2 = 39$. Express your answer as a reduced fraction.

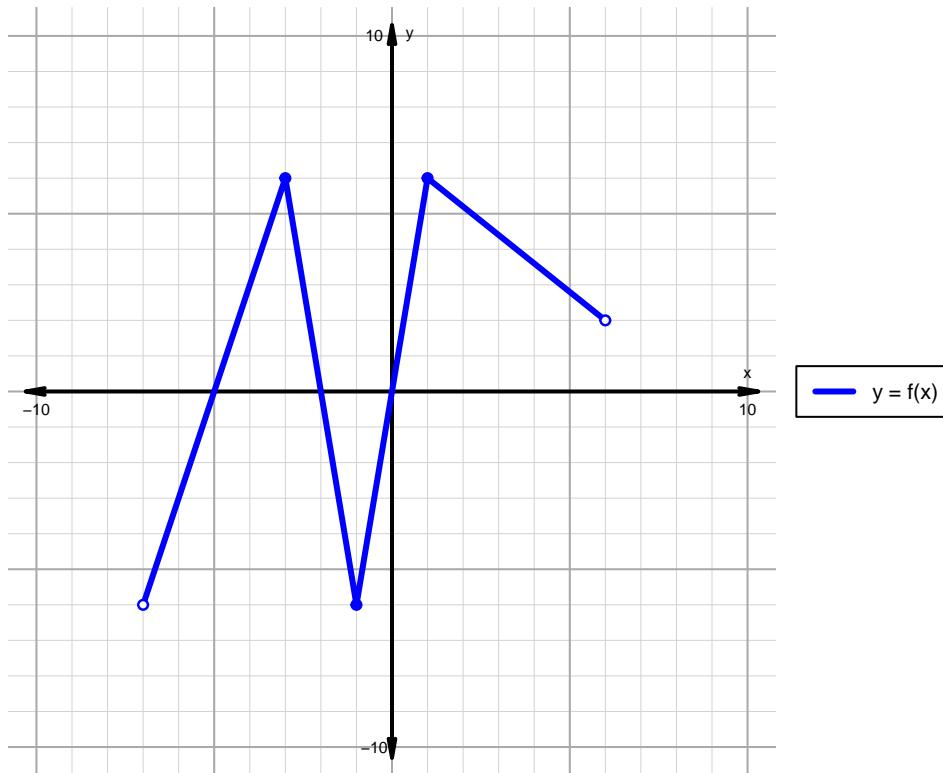
x	$g(x)$
27	93
39	63
63	27
93	39

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 174)

1. The function f is graphed below.



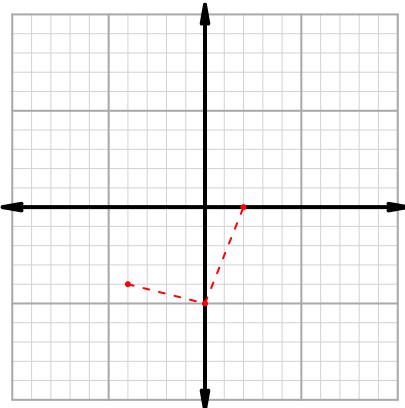
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

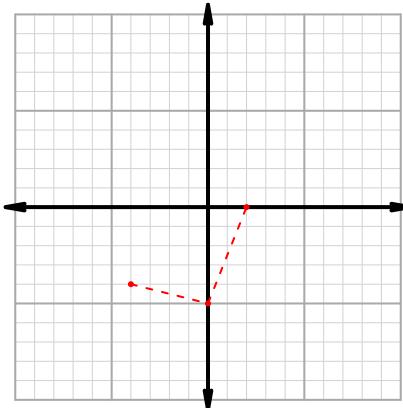
Intervals, Transformations, and Slope EXAM (version 174)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

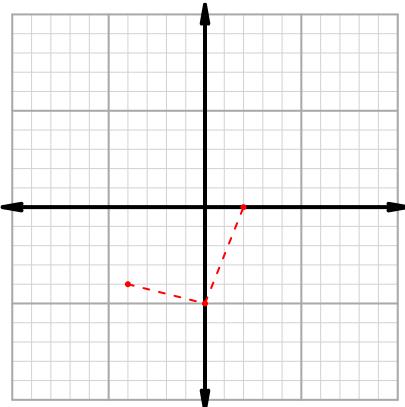
$$y = f(-2 \cdot x)$$



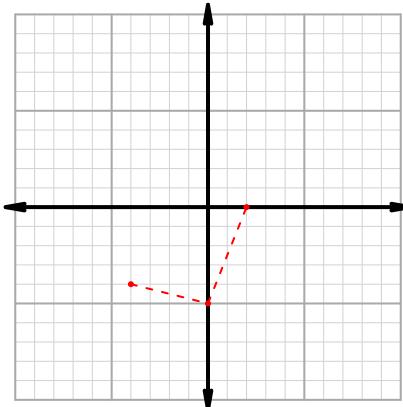
$$y = -2 \cdot f(x)$$



$$y = f(x) + 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 81$ and $x_2 = 87$. Express your answer as a reduced fraction.

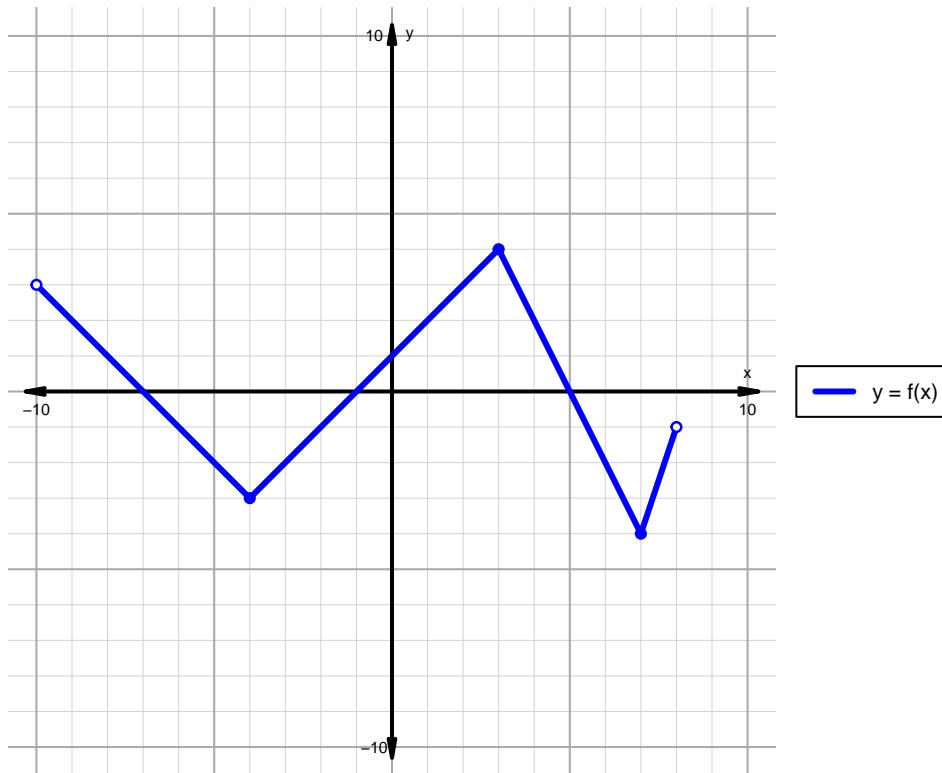
x	$g(x)$
47	81
50	87
81	50
87	47

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 175)

1. The function f is graphed below.



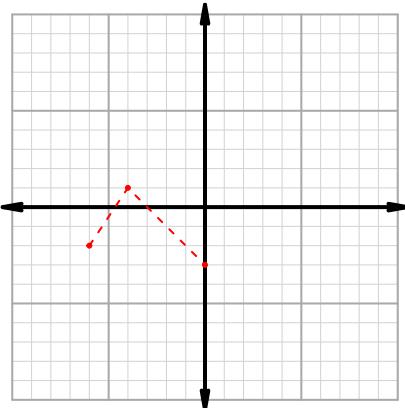
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

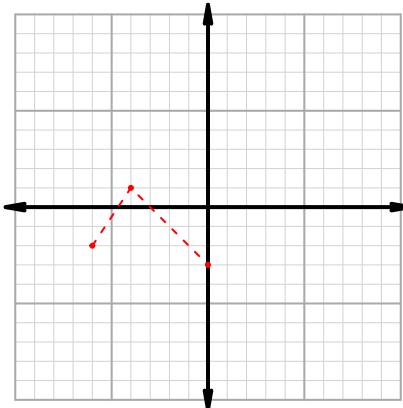
Intervals, Transformations, and Slope EXAM (version 175)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

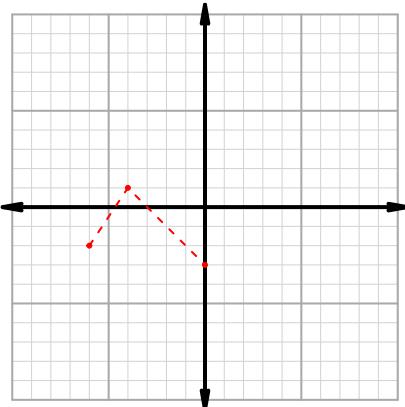
$$y = 2 \cdot f(x)$$



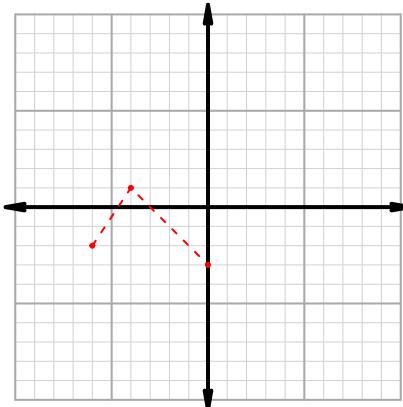
$$y = f(x) + 2$$



$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 35$ and $x_2 = 41$. Express your answer as a reduced fraction.

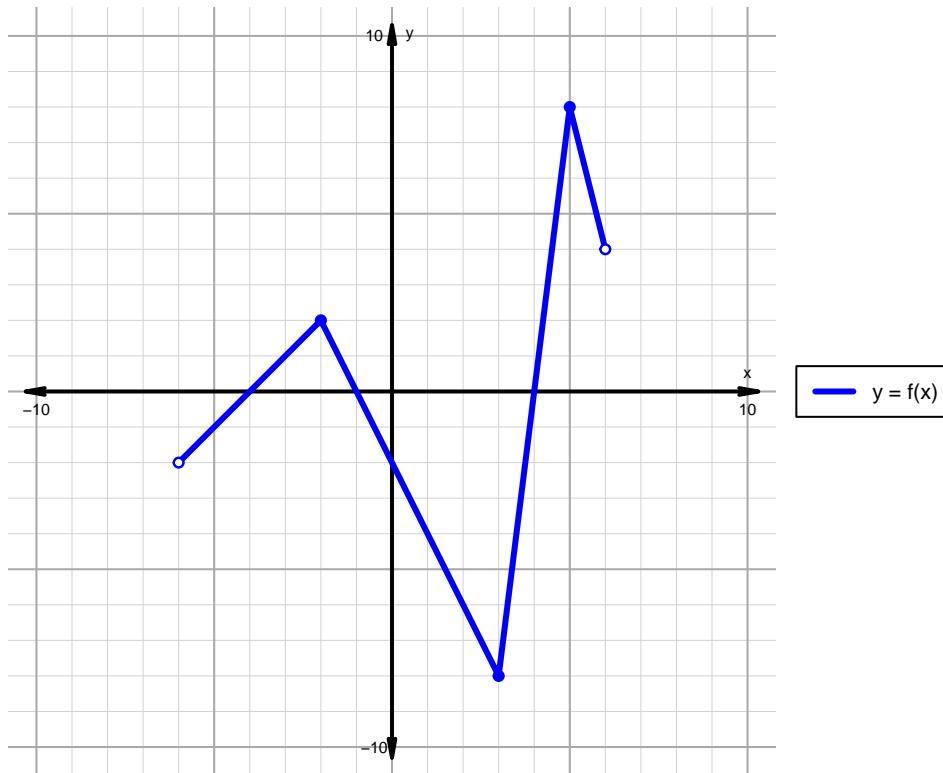
x	$g(x)$
35	69
41	65
65	35
69	41

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 176)

1. The function f is graphed below.



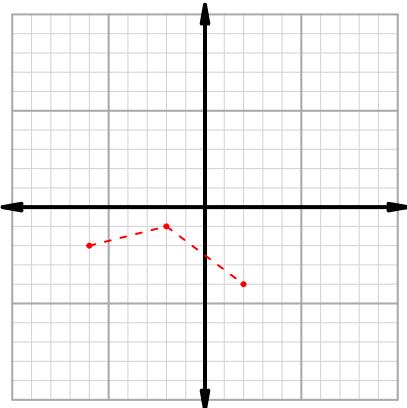
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

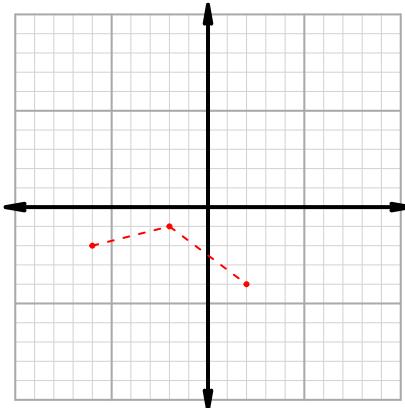
Intervals, Transformations, and Slope EXAM (version 176)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

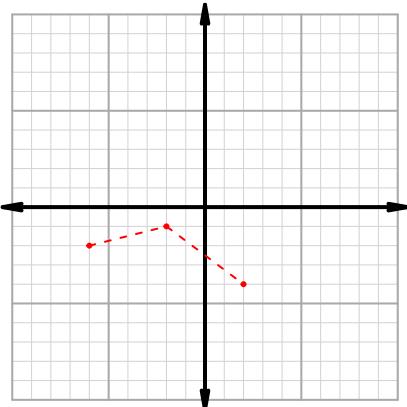
$$y = f(x - 2)$$



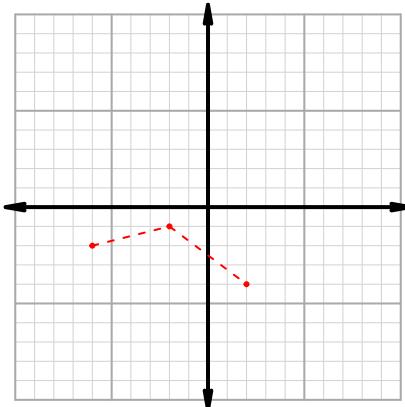
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 44$ and $x_2 = 69$. Express your answer as a reduced fraction.

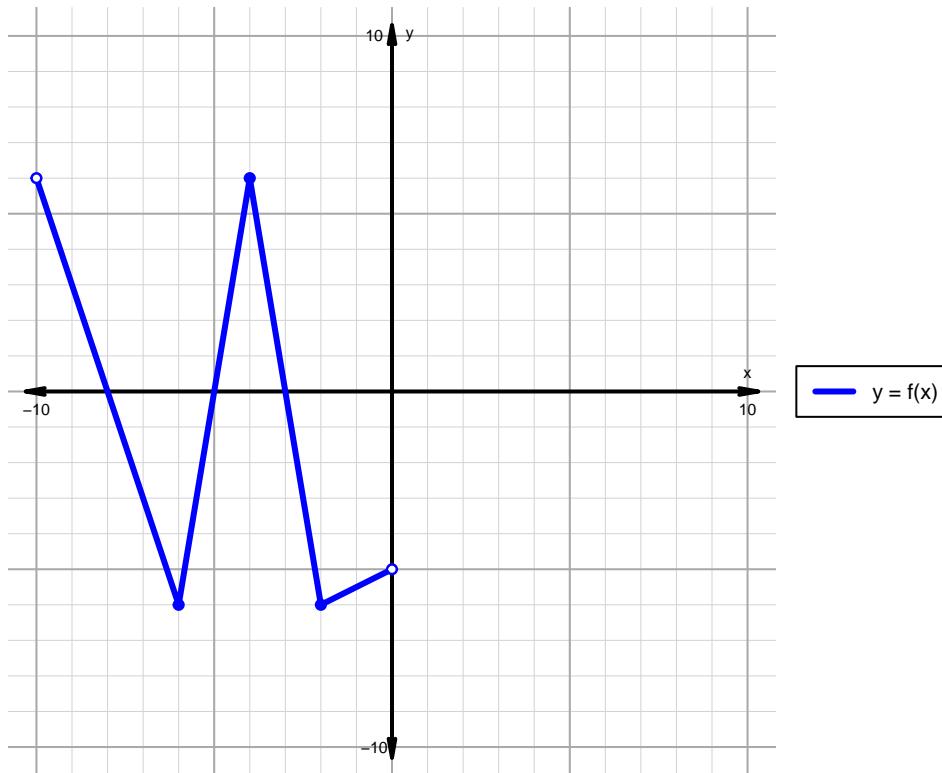
x	$g(x)$
44	68
68	69
69	88
88	44

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 177)

1. The function f is graphed below.



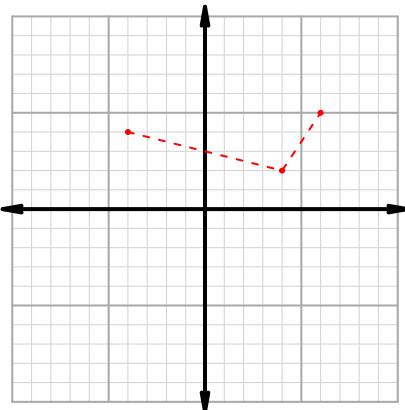
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

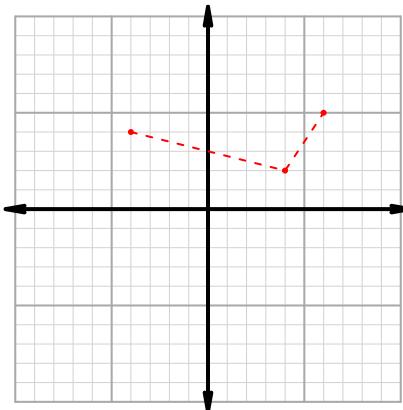
Intervals, Transformations, and Slope EXAM (version 177)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

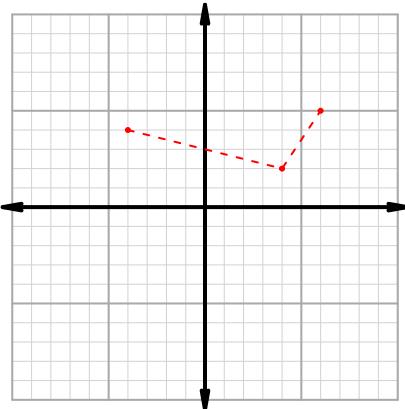
$$y = 2 \cdot f(x)$$



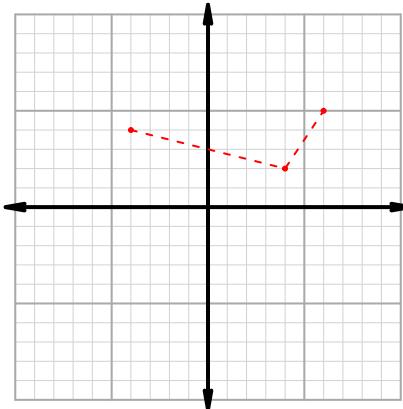
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 66$ and $x_2 = 76$. Express your answer as a reduced fraction.

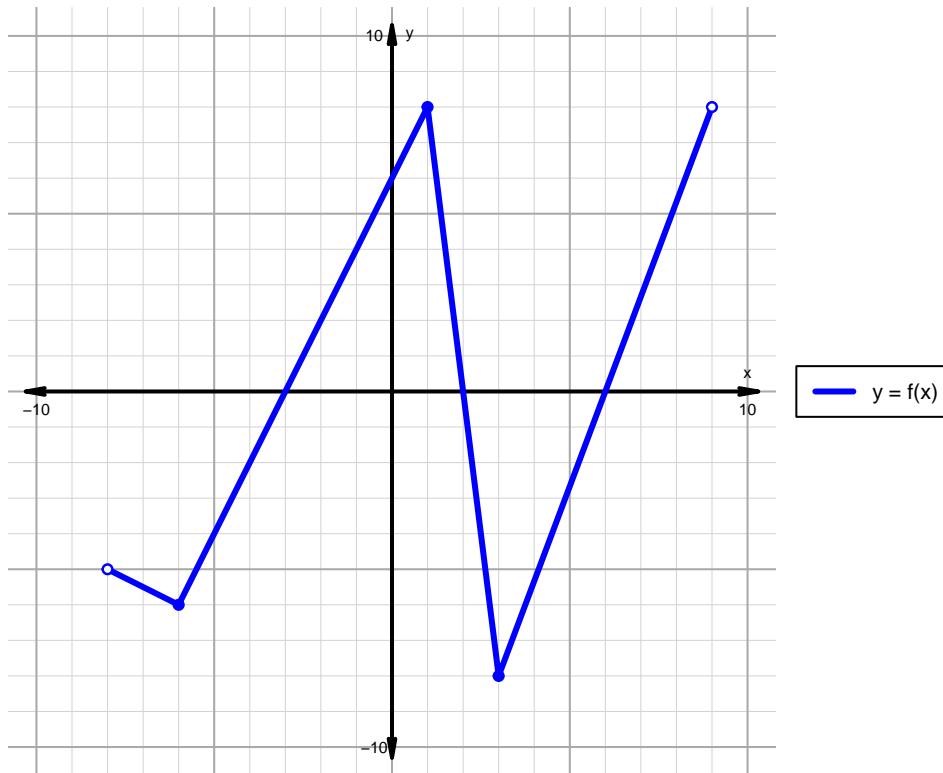
x	$g(x)$
13	66
15	76
66	15
76	13

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 178)

1. The function f is graphed below.



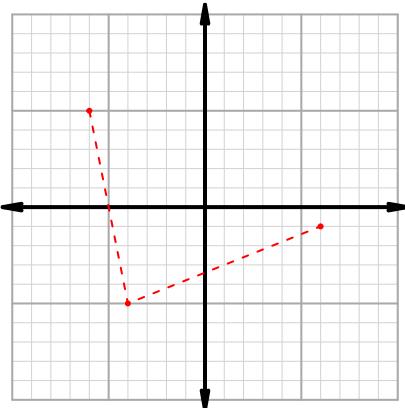
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

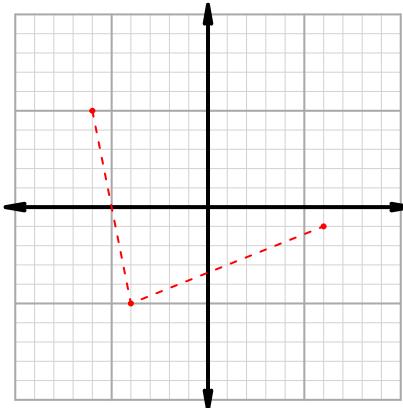
Intervals, Transformations, and Slope EXAM (version 178)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

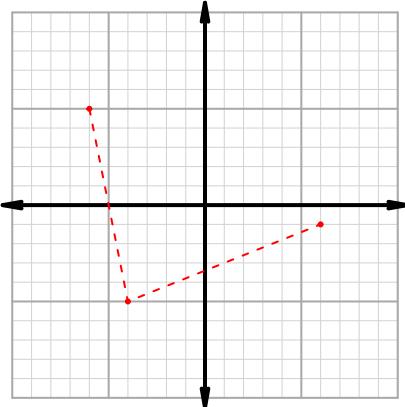
$$y = 2 \cdot f(x)$$



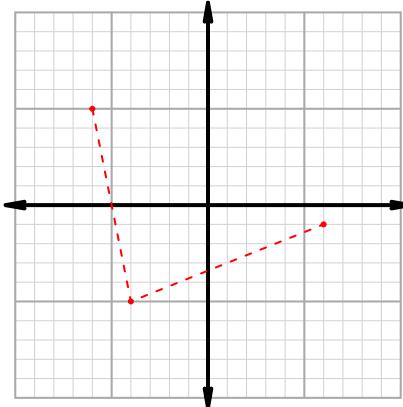
$$y = f(x + 2)$$



$$y = f(x) + 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 31$ and $x_2 = 43$. Express your answer as a reduced fraction.

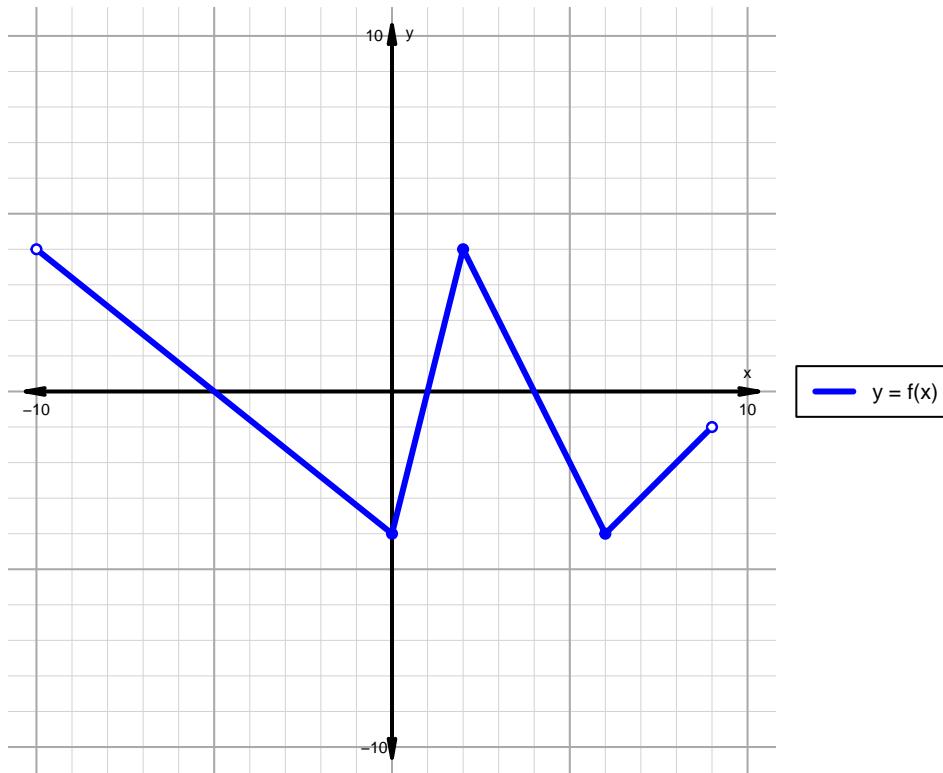
x	$g(x)$
31	78
43	50
50	31
78	43

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 179)

1. The function f is graphed below.



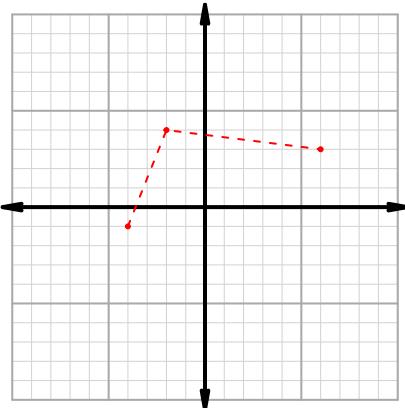
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

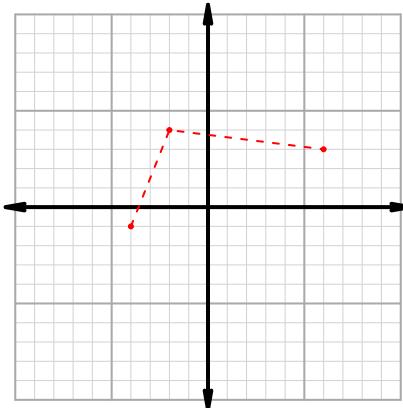
Intervals, Transformations, and Slope EXAM (version 179)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

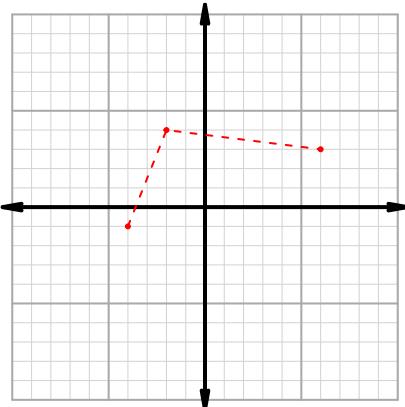
$$y = 2 \cdot f(x)$$



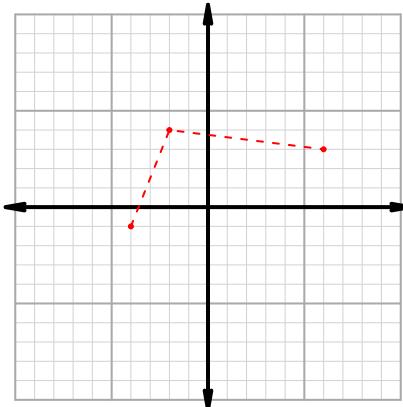
$$y = f(x) + 2$$



$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 21$ and $x_2 = 39$. Express your answer as a reduced fraction.

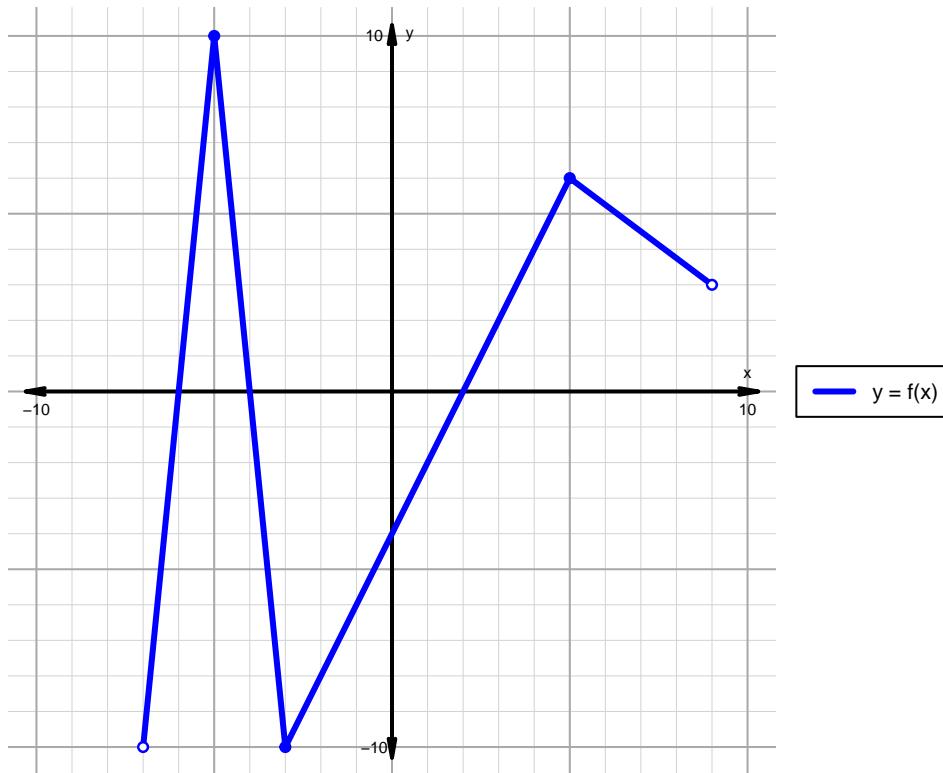
x	$g(x)$
21	28
28	39
39	91
91	21

Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 180)

1. The function f is graphed below.



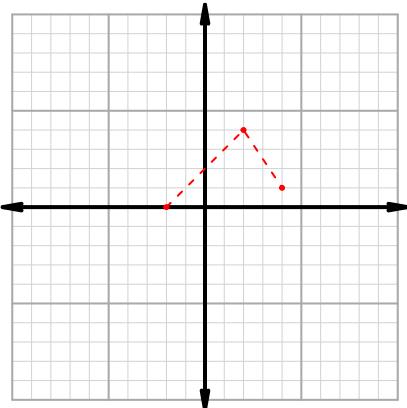
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

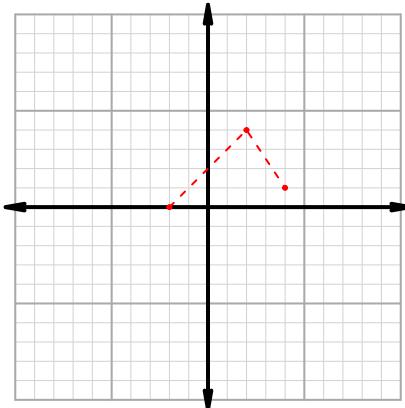
Intervals, Transformations, and Slope EXAM (version 180)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

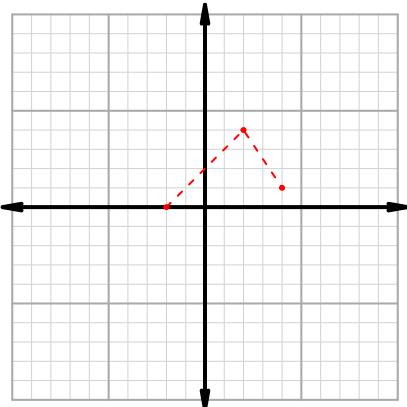
$$y = f(x) + 2$$



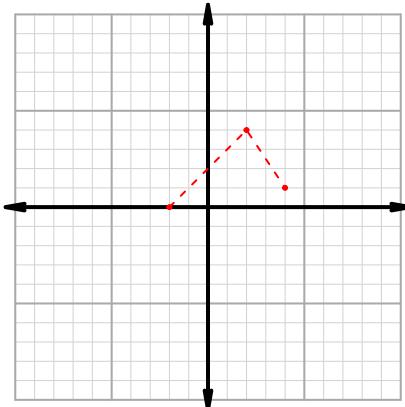
$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 14$ and $x_2 = 54$. Express your answer as a reduced fraction.

x	$g(x)$
3	14
14	28
28	54
54	3